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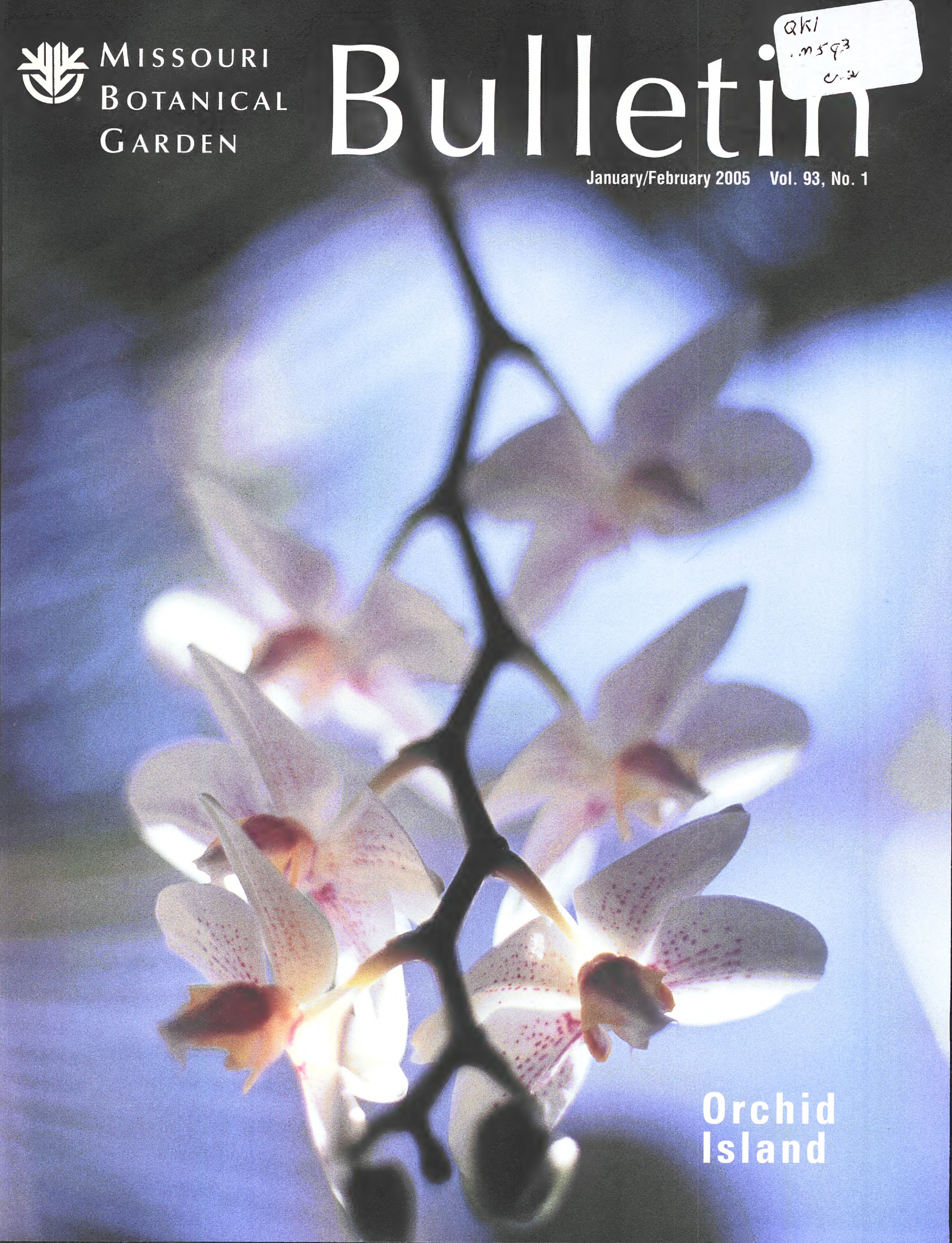
MISSOURI BOTANICAL GARDEN

# Bulletin

January/February 2005 Vol. 93, No. 1



## Orchid Island

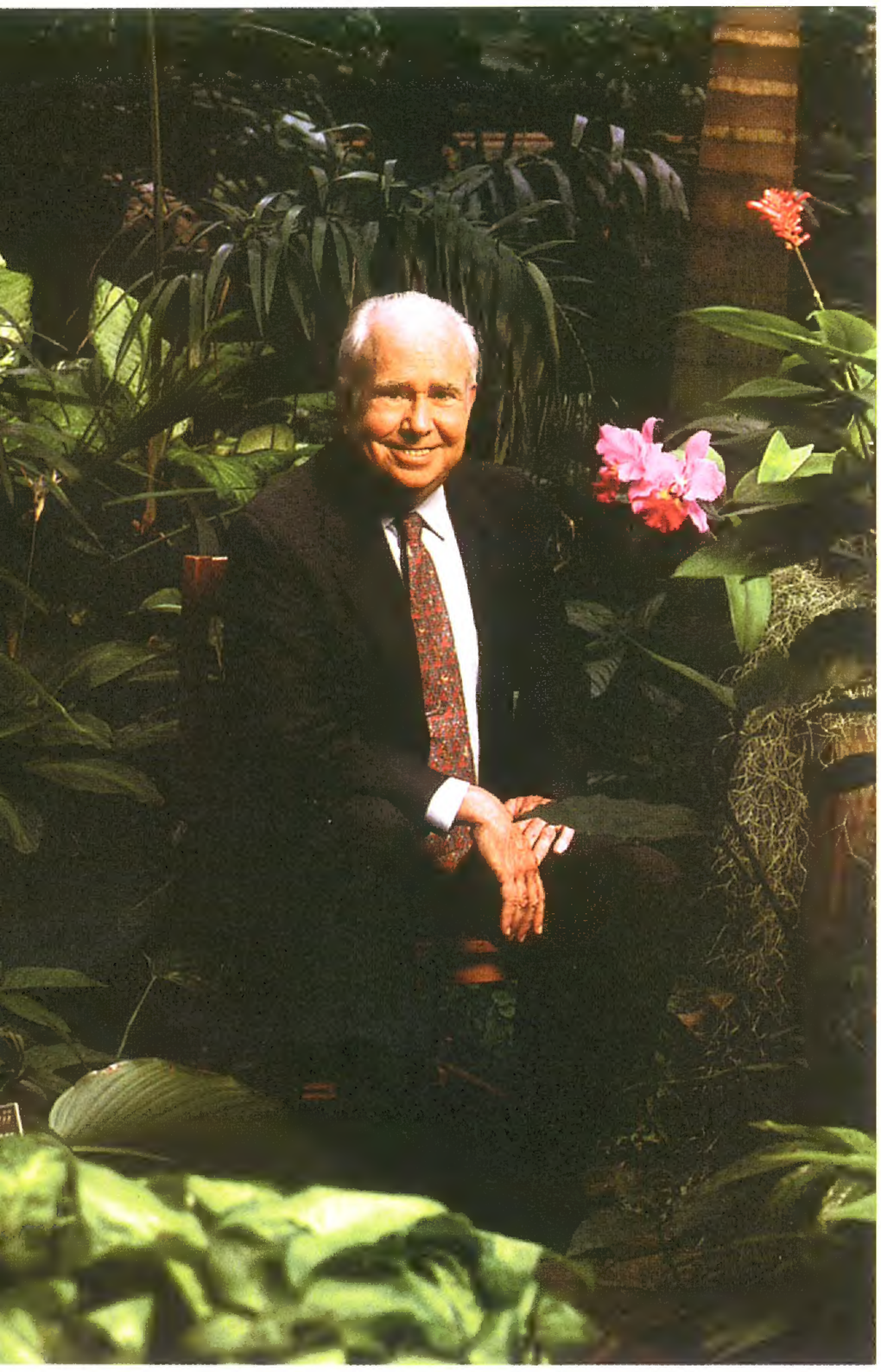


PHOTO BY PETER HOWARD

*To discover and share knowledge*
*about plants and their environment,*
*in order to preserve and enrich life.*

*–mission of the Missouri Botanical Garden*

# from the director...

In 2004, the Missouri Botanical Garden—with your help—planted the seeds for exciting projects of the future. And in 2005, we will help these new developments grow to maturity.

Since my love for the natural world was fostered so early in life, it is my privilege to help make possible that same opportunity for the Garden's youngest visitors. In May 2004, we broke ground on the Doris I. Schnuck Children's Garden. When completed later this year, the Children's Garden will immerse children and their families in a 19th-century Missouri adventure as they discover the importance of plants in their lives today.

Ever since Shaw challenged the trustees to keep the surrounding neighborhood "pleasant and attractive," the Garden has cooperated with local community-based groups to effect change. Years of collaboration bore fruit in June 2004, when McBride & Son Homes broke ground on the new Botanical Heights development. Fifty would-be owners of new brick homes camped out overnight in August to be the first to purchase a house, and the builder plans to add another 140 single-family homes in the neighborhood in the coming years.

The year 2004 ended on a high note as we learned that the scores from schools in the Garden Education Compact were advancing toward math and science proficiency faster than state and local schools, and that two donors were stepping forward with significant gifts for the George Washington Carver Garden.

Many projects related to the *Stewards of the Earth* campaign are now underway and more are to come. I know that with the generosity and leadership of our many members, donors, and friends, we can meet our current goal and any challenges the future brings. We are very grateful for your continued support.

Peter H. Raven

Peter H. Raven, *Director*

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## editor's note...

It's January, the traditional time for New Year's resolutions, and every year the Garden vows to "reduce, re-use, recycle." One way we do this is by continuing to streamline our paper usage. As everyone knows, most paper comes from trees, so the less paper we use, the fewer trees are cut down. Paper manufacturing also requires large amounts of energy, which in turn creates pollution. In 2004, we piloted new, paper-free electronic initiatives like the members' *Garden Gram*, a monthly email full of all the latest happenings, upcoming events, and special offers just for members. If you aren't currently receiving the *Garden Gram*, just log on to the Garden's website www.mobot.org and click on "sign up for our e-newsletter" to be delivered directly to your email "inbox."

However, paper is still a big part of communicating with our members, and certainly the single biggest paper use is the *Bulletin*. We know those cover photos of roses and water lilies look attractive on the coffee table, and we understand how convenient it is to throw the paper *Bulletin* in your purse or briefcase to read in the park, on the plane, or during lunch. That's why, in 2005, we're choosing to have our cake and eat it too. You may have noticed that this issue of the *Bulletin* looks a bit different. That's because we are saving trees even while we continue to print on paper—100% post-consumer recycled paper. The *Bulletin* is now 100% new-tree-free. Not only are we closing the recycling loop and saving trees, but this paper is manufactured using wind power, one of the cleanest energies around. So enjoy your *Bulletin* in good conscience—and once you've read it and saved the important dates, please be sure to recycle it or pass it on to a friend. Happy New Year!


Elizabeth McNulty, editor
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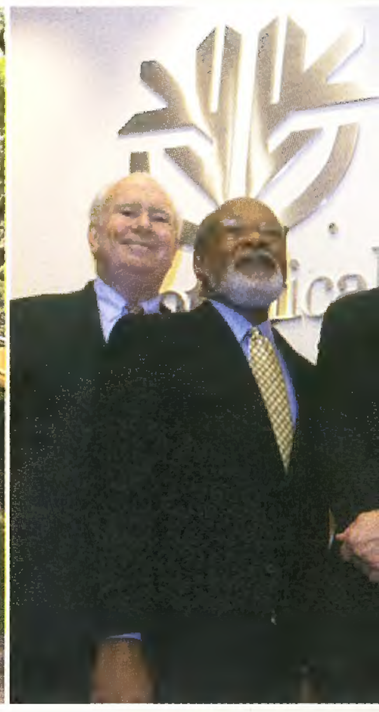


PHOTOS BY DIANE WILSON

# Stewards of the Earth

the Campaign for the Missouri Botanical Garden

*The Missouri Botanical Garden is engaged in a $71 million drive to strengthen our critical role in establishing St. Louis as a world leader in the plant sciences and greatly enhance biodiversity and conservation around the globe. The Garden seeks to raise $35 million, from a total goal of $71 million for research and conservation. Please join us in making a gift to the Stewards of the Earth campaign.*

## Community Building

The campaign for the Missouri Botanical Garden in entering its final stage: the home stretch. With less than a year remaining until the campaign concludes in December, our members have a unique but fleeting opportunity.

This campaign will set the course for the Garden for the next 30 years. Campaign gifts from members will strengthen the Garden for us, our children, and the generations that follow.

As a member, you understand what the Garden means to our city and region. Garden members visit regularly, enjoy the flower shows, dine and shop more frequently at the Garden. Responses to a recent survey tell us that most members also share the Garden's commitment to education and to enhancement of our region.

A green oasis in the heart of a big city, the Garden attracts more than 600,000 visitors a year. The Garden's buildings and pathways are showing more wear and tear than ever before. As the oldest botanical garden in the nation, MBG has many older mechanical systems that desperately require

## join us...

PHOTO BY TRENT FOLTZ

"This drive provides a unique opportunity to participate in the future of the Garden," says Director of Development Patricia Arnold. For more information on how you can help, please contact the office of Development at (314) 577-5120.

replacement with contemporary energy-efficient models. Your membership helps defray the Garden's operating expenses, but capital improvements and endowment require additional gifts.

This Campaign will provide $71 million in resources that could not be secured through memberships and admission fees. That's why the Campaign needs gifts from members: to secure the Garden's future while maintaining membership and admission fees at reasonable levels in the years ahead.

Henry Shaw founded the Missouri Botanical Garden in 1859 "for all time for the public benefit." He was a St. Louis businessman who dedicated his savings to realizing his dream of establishing a world-class institution for research, education, and horticultural display.

As a beneficiary of Henry Shaw's gift, you can leave your own legacy for all time with a gift to the Stewards of the Earth Campaign. For more information, contact the Development Office at (314) 577-5120.

*Above: Throughout the Stewards of the Earth campaign, individuals and families have made a difference, both in terms of leadership and financial support. From left: the groundbreaking for the Botanical Heights neighborhood, for the Doris I. Schnuck Children's Garden, the opening of the Commerce Bank Education Center, and the dedication of the Denison Lodge at the Shaw Nature Reserve.*

## A Community Challenge

*Larry Cohn*

Larry Cohn has a passion for helping children, strengthening education, and promoting St. Louis. children, education, and St. Louis. Together these passions have inspired him to challenge others to match his gift of $500,000 toward the new George Washington Carver Garden, scheduled to open in 2005.

The new garden will provide a space for quiet reflection on Carver's life and accomplishments as well as an outdoor "laboratory" for thousands of children. "I studied Carver as a boy," says Cohn, "and I want to give the children of St. Louis a chance to be inspired as I was."

A Washington University graduate, Cohn recently returned to St. Louis after many years in Arizona. "I have been called St. Louis's biggest fan,'" he says. "I think I've read every book published on St. Louis."

With Cohn's gift, the Stewards of the Earth Campaign has secured $1,125,000 of the $2 million needed to complete the Carver garden. The remaining funds are part of $5 million that must be raised by the end of 2005 to meet the overall Campaign goal of $71 million.

Cohn said he is eager for Garden members to make gifts to complete the Carver challenge, but will count all gifts to the campaign toward matching his gift. "The Missouri Botanical Garden is among our city's finest assets," he says. "Any gift that helps meet the goals of the campaign will enhance this unique asset. "I want my gift to make a statement that we all should support the Garden with gifts if we want to leave it stronger for the future."

To help the Garden match this gift, and to contribute toward this monument to the 20th century's most influential agricultural scientist, please make your gift today. For more information, call (314) 577-5120.

# NEWS

## Convenient Recycling

The Garden is pleased to offer more convenient recycling for our members. Now throughout the grounds you will find bins designed to capture aluminum cans and glass and plastic bottles wherever trash is collected. Please recycle.

## New Kitchen

Participants of Kemper Center cooking classes have even more to anticipate this spring: a new set of luxury appliances. DACOR has donated a new double convection wall oven, gas cooktop, microwave oven, and dishwasher. The Kemper Center also replaced the aging laminate surface on the cooking island with granite. Pictured in the photo at left are the Kemper Center staff and Paul Harris of DACOR (second from right).

PHOTOS BY DIANE WILSON, JJ LANE, JUSTIN VISNESKY, AND MATT BENDER

## Suwa–St. Louis Sisterhood

On November 1, 2004, the Garden celebrated the 30th anniversary of the St. Louis–Suwa, Japan, sister city relationship with a ceremonial tree planting. The official tree of the city of Suwa, a type of Asian quince (*Chaenomeles* 'Karin'), was planted near the east entrance to Teahouse Island by a delegation of visiting dignitaries, including Suwa Mayor Katsufumi Yamada, seen at left.

## William L. Brown Award

On October 7, 2004, Dr. Raven presented the William L. Brown Award to Dr. Henry L. Shands, the director of the USDA–Agricultural Research Services's National Center for Genetic Resources Preservation in Fort Collins, CO (see bottom left photo). The award recognizes outstanding individuals for dedication to slowing the erosion of genetic stocks of crops and their wild relatives.

## Gardenland Express

Special thank-you to Greg Krekeler of The Hobby Station, Kirkwood, MO, for all the help designing, implementing, and promoting this year's Gardenland Express.

## Plants of Merit Program Expands

In August 2004, the Missouri Botanical Garden welcomed Powell Gardens of Kansas City as a partner in the Plants of Merit program. Founded in 1999, the Plants of Merit program promotes underutilized and lesser-known plants for their outstanding qualities and dependable performance in the lower Midwest. A list of recommended plants is published annually for home gardeners. Stop by the Kemper Center for Home Gardening to purchase your copy today. Or check out www.plantsofmerit.org.

## Henry Shaw Fund

Henry Shaw would be very proud of the Garden that he founded more than 150 years ago for its leadership in horticultural display, innovative math and science education programs, and world-renowned status as an institution of botanical research.

Each year, we affirm Mr. Shaw's legacy and extraordinary vision by inviting those who share his commitment make a gift to the Henry Shaw Fund, our most important source for annual operating support to maintain the Garden and increase the services provided to members. If you have not yet had the opportunity to do so, there is still time to make a gift to the 2004 Henry Shaw Fund year-end appeal. Your tax-deductible gift is vital as the Garden advances in its mission to discover and share knowledge about plants and their environment, in order to preserve and enrich life.

For additional information regarding the Henry Shaw Fund or to make your gift today, please call Sharon Mertzlufft at (314) 577-9495.

## Corporate Partners

The Corporate Partners program strengthens the relationship between the Garden and the corporate community in the greater St. Louis region. Become a Corporate Partner today! For information, call Sharon Mertzlufft at (314) 577-9513. We are pleased to recognize our new or renewing corporate partners:

**Shareholder Level ($10,000 to $24,999)**
A.G. Edwards, Inc.
Anheuser-Busch Companies, Inc.

**Underwriter Level ($5,000 to $9,999)**
Alberici Group
Brown Shoe Company, Inc.

**Supporter Level ($1,000-$4,999)**
Blue Cross Blue Shield of Missouri
Christner Inc.
Graybar Foundation
HOK, Inc.
Dierbergs Markets, Inc.

PHOTO BY JJ LANE

### Thank you!

The wonderful holiday wreath display would not be possible without the participation of our many designers. Special thanks to: Aidell Burchard Fresh Art, BitterSweet Botanicals, Dale Rohman Enterprise Inc., Drury House, Eckert Florist, Garden Gate Shop, Ladue Florist, MKS Design Inc., Montano Grant, Studio P, The Bug Store, twigs and MOSS, and Wildflowers.

PHOTOS BY BETH HAINES, CHARLES SCHMIDT AND JOSH MONKEN

*The new Bonus Bloom Pass is redeemable for a tram ride, one Butterfly House admission, or one admission to the Doris I. Schnuck Children's Garden—A Missouri Adventure opening later this year.*

# Membership Growing in 2005

We are excited to announce the following new developments in the membership program that will provide greater value and benefits for our members.

### Membership Programs to Merge

Effective January 1, 2005, the membership program for the Butterfly House will merge with that of the Garden. We are pleased to offer current Garden members a discounted admission rate to the Butterfly House of $3 per person, as well as discounts in the Madame Butterfly shop. Garden members at the Family level and above will continue to receive passes that can be redeemed for complimentary admission to the Butterfly House as a benefit of membership. (See page 11 for more details.)

### Bonus Bloom Passes

We are excited to introduce Bonus Bloom passes, a new benefit that will add even more value to your Garden membership.

The Garden is full of blooms every season of the year. Use your new Bonus Bloom passes to further enjoy all that the Garden has to offer! With Bonus Bloom passes, you can decide where and when to apply your membership benefits. Garden members at the Family level and above will receive Bonus Bloom passes to redeem for tram rides, admission to the Butterfly House, and entrance to the new Doris I. Schnuck Children's Garden—a Missouri Adventure opening later this year. The number of Bonus Bloom passes varies by membership level.

Look for more details on these exciting developments in your next renewal mailing. Thank you for your continued membership support. If you have any questions or need additional information regarding these enhancements to the membership program, please call (314) 577-9495.

# EVENTS

PHOTO BY DIANE WILSON

## Annual Orchid Show

Starting January 29, escape to "Orchid Island" at the Missouri Botanical Garden, where hundreds of blooming orchids and tropical plants create a fragrant floral paradise in the middle of winter. For six weeks each year, visitors have an opportunity to see nearly 800 orchids brought out from the Garden's greenhouses.

The 2005 show, "Orchid Island," showcases the award-winning collection amid scenes reminiscent of classics such as *The Swiss Family Robinson*, *Treasure Island*, and *Robinson Crusoe*. Orchids, bromeliads, palms, ferns, vines, and dozens of tropical plants grow along pathways surrounding a beached raft and a thatched roof tree house inhabited by parrots, monkeys, and a few stranded castaways.

Visitors who return throughout the six-week show may notice changes from week to week as fresh blooms are added. The horticulture division's greenhouse and floral display staff and a busy group of volunteers plan and prepare for the show months in advance. Log on to www.mobot.org/hort and click on "Activities and Events" for a preview.

A sample of the orchid collection is on view year-round in the Beaumont Room in the Ridgway Center and inside the Climatron conservatory.

Visit the Garden Gate Shop during the show for an outstanding selection of orchid plants and gardening accessories.

*Orchid Island 2005*
*Sat., Jan 29 to Sun., Mar. 13; 9 a.m. to 5 p.m.; Ridgway Center*
*Admission plus $3 for adults and children; $2 for seniors (65+).*
*Free for members!*

## Members' Preview *Fri., Jan. 28, 5 to 8 p.m.*

Don't miss the sneak preview of the 2005 orchid show… for members only. Enjoy musical entertainment while you stroll among the magical evening orchid viewing. Special dinner buffet will be available for $17.50 per person, cash bar available, and the Garden Gate Shop will be open. For more information please call (314) 577-5154.

## Celebrate the Gospel

*Sun., Feb. 6 & 13, 3 p.m.*

Celebrate Black History Month with gospel singing. The 15th annual "Celebrate the Gospel" features performances by renowned local choirs: the Gospel Unlimited Choir (Antioch Baptist Church) on February 6, and the Anointed Voices of Youth Choir (North Galilee Baptist Church) on February 13. Seating is limited, so arrive early to obtain the best seats, first-come, first-served.

## Sugared, Spiced, Everything Iced

*Sat. & Sun., Feb. 26 & 27, 10 a.m. to 4 p.m.*

Whether you have plans for a grand wedding reception or just a sweet tooth, come down to the Garden's annual cake-decorating event. Throughout the weekend, enjoy an elaborate display by some of the region's most talented cake and confection designers, who will share their tips and tricks with visitors.

# FOR MEMBERS ONLY...

## Greening Your Home and Office

*Thurs., Jan. 13, 11 a.m., Ridgway Center*

Take a virtual tour of the Garden's "green" house, the EarthWays Home, guided by Program Manager Jean Ponzi. From landscaping to lightbulbs, rain water to washing machines, explore many ways your everyday actions can save money while saving our limited natural resources for future generations.

## Houseplants: Living Décor

*Fri., Feb. 11, 11 a.m., Ridgway Center*

Learn about "interior-scaping" with houseplants from Chris Wagner of Rolling Ridge Garden Center. Review houseplant basics such as light requirements, watering techniques, and suitable containers, while expanding your knowledge of exciting new plant introductions.

PHOTO BY DIANE WILSON

## Valentine Day Dinner Dance

*Sat., Feb. 12, 6:30 to 10:30 p.m.*

Bring your sweetheart to the Garden for our romantic Valentine Day Dinner Dance. Enjoy a gourmet dinner, stroll through the Orchid Show, and dance the night away with your very special someone. Dinner is served from 6:30 to 8 p.m. Music and dancing from 7:30 to 10:30 p.m. Cash bar. $60 per person. By reservation only, so please call (314) 577-5154 soon to reserve your spot.

## Gourmet in the Garden

*Tues., Feb. 1 & 15, 6 p.m.*

Why go to just another restaurant? For your next birthday or anniversary, experience Gourmet in the Garden, complete with fine gourmet meal, wine, and custom tour. February's evenings include a guided walk through the Temperate House, which highlights Mediterranean climates, followed by a Mediterranean dinner of grilled shrimp and braised lamb shank. Drs. Peter and Pat Raven will attend the February 15 date. $85 per guest. Reservations are required; call (314) 577-5154.

PHOTO BY JACK JENNINGS

## Camellia Craze

Native to Southeast Asia, primarily southern China and Japan, camellias have been cultivated for over 2,000 years for high-quality oil and tea. But this time of year, visitors to the Garden's Linnean House value the camellias for the fantastic display of red, white, and pink blooms, which peaks during the heart of dreary winter in mid-February.

The Linnean House features over 50 different camellias, diverse in size, color, floral form, and history. Some have distinguished pasts, like *C. japonica* 'Magnoliaeflora,' which was grown in Japan as long ago as 1695. Others are old European favorites, such as the cultivar *C. japonica* 'Elegans (Chandler),' developed in the early 19th century in London's first specialty camellia nursery. Also look for the extremely rare yellow-flowering camellia, *Camellia chrysantha*, at the end of the northeast bed. It is one of the last camellias to flower, generally in bloom in early March to early April.

The display is often intensely fragrant, filled from fall through spring with the scent of the fragrant olive trees, *Osmanthus fragrans*, followed by several types of jasmines blooming from early to late spring. Contrary to popular belief, most camellias have almost no scent.

## Coming Soon...

**Vintner's Gala** *Sat., Mar. 5, Ridgway Center*

A very special gala evening of gourmet food and fine wine to benefit the Garden. Drink champagne in the Orchid Show; view unique wines at the silent auction; meet wine experts from around the world and sample their private vintages. In cooperation with A. Bommarito Wines. Tickets are $350 per guest. To request an invitation, please call Brenda Zanola at (314) 577-0879.

**2005 Garden Tour** *Sun., Jun. 12*

Circle June 12 on your calendar and join us for the 2005 Garden Tour. This special tour will feature some of the very finest private gardens in St. Louis. Watch the *Bulletin* for more information.

# GARDEN AT LARGE

The Garden's family of attractions in the St. Louis area includes the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and the Shaw Nature Reserve in Gray Summit.

3617 Grandel Square
St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org

*The Garden division specializing in energy and resource conservation has a new name—EarthWays Center—and a lively new look. "Our sunflower logo affirms the connections between plants, environmental health, and the importance of human efforts to change our patterns of energy usage," says division director Deborah Chollet Frank. "Central to everything we do is educating people of all ages about the benefits of making 'green' choices."*

PHOTO BY DALE DUFER

*New lighting installed in and around the EarthWays Center shows the beauty and cost savings possible through energy efficiency.*

## EARTHWAYS CENTER

### Luminous—and Efficient!

Evening visitors to the Grand Center arts district of midtown St. Louis are discovering a new jewel on Grandel Square, the Garden's own EarthWays Center. Extensive new lighting for the renovated Victorian house and grounds both illuminates the site's many handsome features and demonstrates current lighting technology that saves energy and money.

"The EarthWays Center continues to showcase innovations for home and commercial use," says Ralph Eglin Wafer, architect and lighting project designer. "We are pleased to display attractive, resource-efficient options that are cost-effective and widely available."

These improvements have been supported by generous donations from the Gateway Foundation of Greater St. Louis, the Boeing Employees' Community Foundation, the Association of Professional Energy Consultants (APEC) – Gateway Chapter, Phillips Lighting, and LightPanel™ Technologies Inc.

To learn more, tour the EarthWays Center on monthly Open House weekends (see Calendar), or visit online at www.earthwayscenter.org.

## SHAW NATURE RESERVE

### Seed Sleuths

On October 18, armed with giant, self-sealing plastic bags and a GPS unit, Shaw Nature Reserve staffers joined a team from Illinois, Iowa, and Missouri to search the Ozark plateau for native plant seeds to add to their collections. Working from Gray Summit to Branson, with stops at prairies, glades and woodlands, the seed sleuths continued to search for native plant seed all the way down into Arkansas.

While researchers from the Chicago Botanic Garden, Morton Arboretum, and the USDA seed bank sought Chicago-hardy cultivar stock, Ozark oaks, and rare members of the St. John's wort family respectively, SNR native plant horticulturist Scott Woodbury and restoration biologist James Trager gathered seeds from grasses and sedges for trials Scott is conducting at the Nature Reserve.

"The heart of the Ozarks is still very wild," says Woodbury, a longtime seed sleuth who served as a guide for the out-of-state collectors. "There is an incredible diversity of plants, and many of them tolerate city conditions well since they're used to growing on limestone."

For more information on seed sleuthing and native plants, or to volunteer, call (636) 451-3512, extension 6078.

PHOTO COURTESY SHAW NATURE RESERVE

*Left to right: Boyce Tankersley (Chicago Botanic Garden), JoAnn McCoy (USDA), Judy Griffith (Nine Stone Land Trust), Kunso Kim (Morton Arboretum), and Scott Woodbury (Shaw Nature Reserve).*

*Shaw Nature Reserve*
*Hwy. 100 & 44 (exit 253)*
*Gray Summit, MO 63039*
*(636) 451-3512*
*www.shawnature.org*

# The Butterfly Page

15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

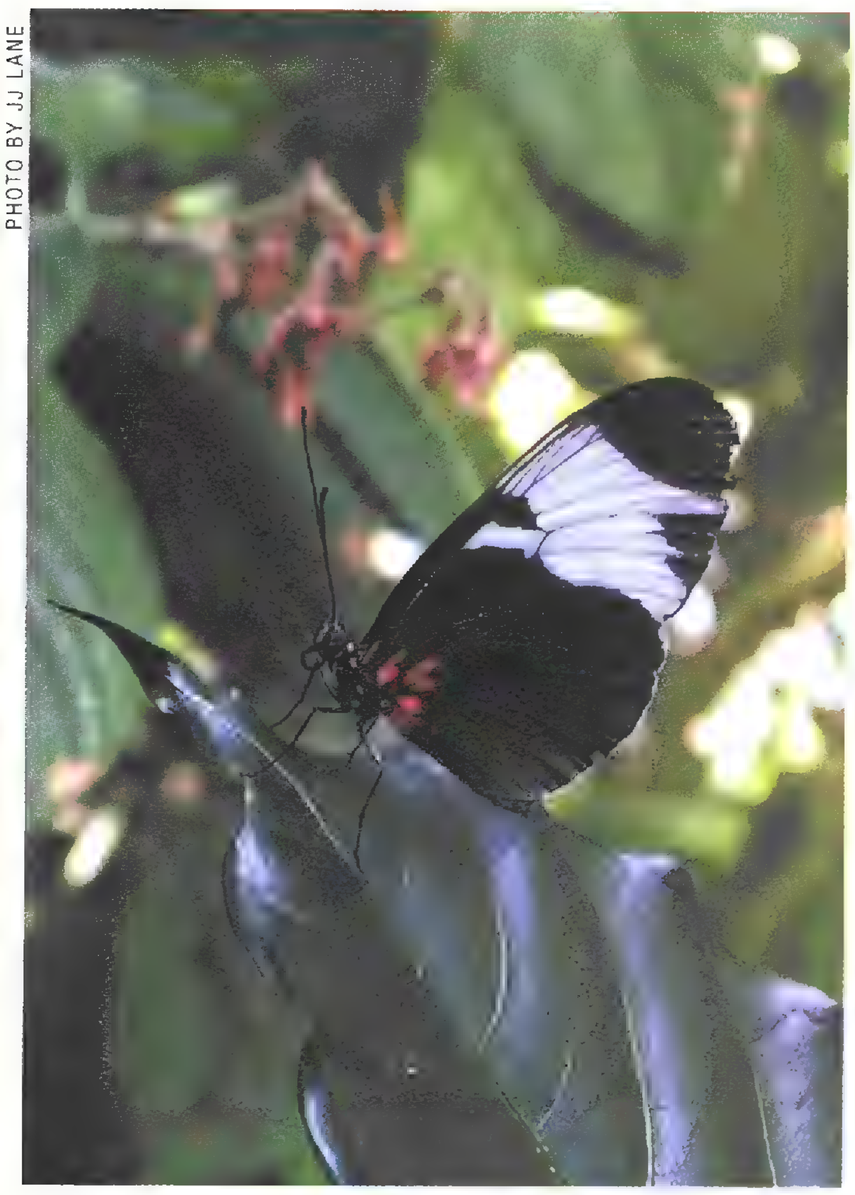


PHOTO BY JJ LANE

## Membership Growing in 2005

Effective January 1, 2005, the membership program for the Butterfly House will merge with that of the Garden. For current members of the Butterfly House, this means that your membership will become a Garden membership at the time of your scheduled renewal date. In addition to the admission privileges you currently enjoy at the Butterfly House, your new upgraded membership will offer free unlimited admission to the Garden, Shaw Nature Reserve, and EarthWays Center, as well as monthly Members' Days, shop and café discounts, subscription to the *Bulletin*, and additional benefits, depending on the level of membership you choose. See page 7 for more details. If you are currently a member of the Butterfly House, and have not yet received information detailing the program changes, please contact the Membership Office at (314) 577-0297 or (314) 577-9495.

**Members:** Please join us for a taste of the tropics in February right in St. Louis. As a special Members' Day, Garden members will receive free admission to the Butterfly House on February 23 and 26. Special guided tours of the Conservatory will be offered to members between 11 a.m. and 1:30 p.m. Children are welcome and will receive a take-home packet.

## Tributes September–October 2004

*For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-0297.*

**In Honor of Judy and Ira Gall**
Bert and Margie Talcoff

**In Memory of Christopher Carey**
Helen VanDerhyden

**In Memory of Irving Edward Legendre**
Jules and Shirley Snitzer

## Pavers September–October 2004

*For information on honoring a loved one with a paver, please call the Development Office at (314) 577-5154.*

**Aunt Dorothy**
Thomas E. Plank

**Baby Andrew**
Grammie
Po Chuck
Uncle Pat
Aunt Melanie
Joshua
Uncle Doug
Aunt Darla
Krystin
Ryan

**Bob and Norma Downey**
Lora and Kevin Downey

**Ken J. Eicks**
The Sims
The Geigers

**Faith L. Gill**
Mary York

**Grandma Sarah & Kyla**
Sarah R. Murray

**Liz Holly**
Book Club Friends

**Steve and Kevin Lohse**
Carrie Lohse

**Doris McCoy**
Thomas E. Plank

## Events

*Hula Hoopla.* Saturday, January 22, 11 a.m. to 2 p.m.
Beat those winter blues with a visit to the Butterfly House's Sophia M. Sachs conservatory for some tropical fun! See if you can throw a hula hoop around a Tiki Totem Pole and win a prize, play hula hoop boomarang, and more. Enjoy tropical crafts and learn to dance the hula to the strains of Hawaiian music. Hula Hoopla is designed for families with children ages 2 to 10, but will certainly be enjoyed by all ages. Free with Butterfly House admission.

## Education

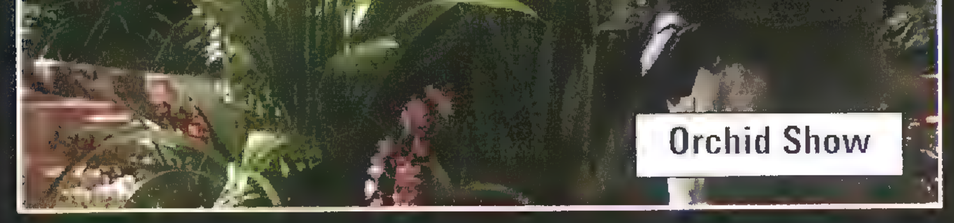
**BUZZ:** 1. the noise a bee makes
2. a new series of fun-filled classes at the Butterfly House

BUZZ is a series of monthly classes, workshops and events at the Butterfly House for children ages 8–12. Classes are $13 ($9 for Garden members), but visitors are encouraged to enroll in three classes for the price of two. Parents are asked to attend the class with their children and class size is limited to 20. Please call (636) 530-0076 extension 813 to enroll.

**Be an Insect Keeper** Saturday, January 8, 2 to 3:30 p.m.
Ever wonder how we take care of all our animals? Learn how to care for and handle common invertebrates and even help feed the butterflies.

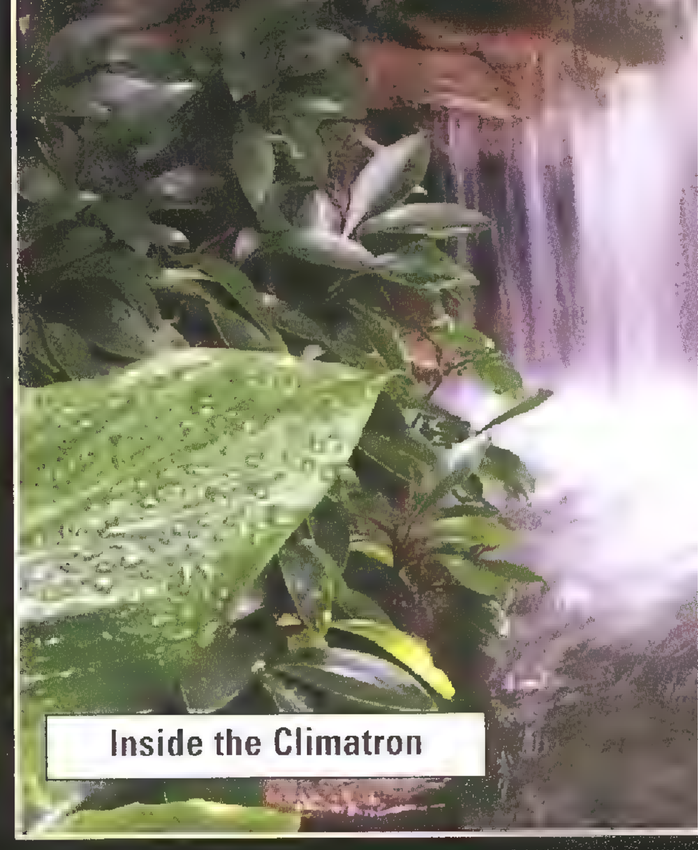
**Don't Eat Me** Saturday, February 12, 2 to 3:30 p.m.
Learn how insects use camouflage and mimicry to avoid being eaten. Activities include observation of the butterfly defenses and games demonstrating camouflage.

# Happy New Year from th



Orchid Show

Japanese Garden



Inside the Climatron

# *Garden!*

Linnean House

Celebrate the Gospel

PHOTO BY LISA FRANCIS

*Indoor horticulturist Cathy Pauley pots up seedlings in the Garden's greenhouse.*

## FROM THE KEMPER CENTER FOR HOME GARDENING...

# WHAT TO DO IN THE GARDEN THIS MONTH

### January

#### All month

*Ornamentals:* Brush off heavy snow, but allow ice to melt naturally from plants. Limbs damaged by ice or snow should be pruned off promptly to prevent bark from tearing. Avoid salt or ice melters as these may injure plants; instead use sand, bird seed, sawdust, or vermiculite to gain traction on icy paths.

*Miscellaneous:* Make a resolution to keep records of your garden this year. Inventory the plants in your home landscape and note past performance. Check all fruit trees for evidence of rodent injury to bark. Use baits or traps where necessary. Avoid foot traffic on frozen lawns as this may injure turf grasses.

*Houseplants:* Read about care and maintenance on page 16 of this issue.

#### Weeks 1–2

*Houseplants:* Quarantine new gift plants to be sure they do not harbor any insect pests.

*Miscellaneous:* If you didn't get your bulbs planted before the ground froze, plant them immediately in individual peat pots and place the pots in flats. Set them outside where it is cold and bury the bulbs under thick blankets of leaves. Transplant them into the garden any time weather permits.

#### Week 3

*Houseplants:* Remove spent Amaryllis flowers after blooming. Set the plant on a bright sunny window to allow the leaves to develop fully. Keep the soil evenly moist, not soggy. Fertilize occasionally with a general purpose houseplant formulation.

#### Week 4

*Miscellaneous:* Try sprouting a test sample of leftover seeds before ordering new seeds for spring. (Roll up 10 seeds in a damp paper towel. Keep moist and warm. Check for germination in a week. If fewer than half sprout, order fresh seed.)

### February

#### All month

*Vegetables:* Don't work garden soils if they are wet. Squeeze a handful of soil. It should form a ball that will crumble easily. If it is sticky, allow the soil to dry further before tilling or spading. Start onion seed indoors now.

*Fruits:* Inspect fruit trees for tent caterpillar egg masses. Eggs appear as dark brown or grey collars that encircle small twigs. Destroy by pruning or scratching off with your thumbnail.

*Ornamentals:* Water evergreens if the soil is dry and unfrozen. Enjoy the fragrant blooms of the Ozark Witch Hazel flowering in shrub borders or wooded areas on warm sunny days. Take geranium cuttings now.

*Miscellaneous:* To avoid injury to lawns, keep foot traffic to a minimum when soils are wet or frozen. Repot any rootbound house plants now before vigorous growth occurs. Choose a new container that is only 1 or 2 inches larger in diameter than the old pot.

#### Week 1

Miscellaneous: Branches of pussy willow quince, crabapple, forsythia, pear and flowering cherry may be forced indoors. Place cut stems in a vase of water and change the water every four days.

#### Week 2

*Ornamentals:* Seeds of slow-growing annuals like Ageratum, Verbena, Petunias, Geraniums, Coleus, Impatiens, and Salvia may be started indoors now.

*Miscellaneous:* Maple sugaring time is here! Freezing nights and mild days make the sap flow. Fertilize house plants only if they show signs of new growth.

#### Week 3

*Vegetables:* Sow celery and celeriac seeds indoors now.

*Fruits:* Begin pruning fruit trees. Start with apples and pears first. Peaches and nectarines should be pruned just before they bloom. When pruning diseased branches, sterilize tools with a spray of germicide between cuts. Dry your tools at day's end and rub them lightly with oil to prevent rusting. Grapes and bramble fruits may be pruned now.

*Ornamentals:* Sow seeds of larkspur, sweet peas, shirley poppies, and snapdragons where they are to grow outdoors now. To bloom best, these plants must sprout and begin growth well before warm weather arrives.

*Miscellaneous:* Now is a good time to apply appropriate sprays for the control of lawn weeds such as chickweed and dandelion. Tall and leggy house plants such as dracaena, dieffenbachia, and rubber plants may be air layered now.

## Week 4

*Vegetables:* Sow seeds of broccoli, cauliflower, Brussels sprouts, and cabbage indoors now for transplanting into the garden later this spring. If soil conditions allow, take a chance sowing peas, lettuce, spinach, and radish. If the weather obliges, you will be rewarded with extra early harvests.

*Fruits:* Established fruit trees can be fertilized once frost leaves the ground. Use about one-half pound of 12-12-12 per tree, per year of age, up to a maximum of 10 pounds fertilizer per tree. Broadcast fertilizers over the root zone staying at least one foot from the tree trunk.

*Ornamentals:* Dormant sprays can be applied to ornamental trees and shrubs now. Do this on a mild day while temperatures are above freezing. Start tuberous begonias indoors now. "Nonstop" varieties perform well in this climate.

*Miscellaneous:* Encourage birds to nest in your yard by providing water and by putting up bird houses. Planting suitable shrubs, trees, vines, and evergreens will provide wild food sources and nesting habitat.

**For additional information on any of these topics, visit the Kemper Center for Home Gardening or check out our Gardening Help section at www.mobot.org.**

## Christmas Tree Recycling

Keep your real tree well-watered, and it should reward you by retaining its needles and remaining fragrant throughout the twelve days of Christmas. And when January 6 rolls around—the traditional date for taking down the holiday decorations—remember that the Garden recycles Christmas trees as a special service for our members. Simply remove decorations and drop off your tree in the lot at 4630 Shaw Boulevard near the Kingshighway intersection, just across from the Garden's Commerce Bank Education Center. No bagged trees, please. For more information, call the hotline at (314) 577-9555.

# FEATURED PLANT OF MERIT

PHOTO BY ALAN STENTZ

### Japanese Falsecypress

*Chamaecyparis pisifera* 'Filifera Aurea'

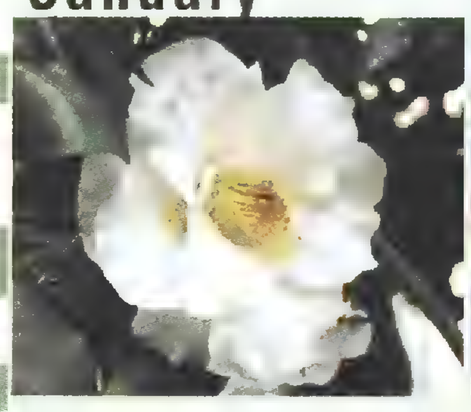
Also known as Sawara Cypress, this broadly conical evergreen is noted for its golden, weeping, thread-like foliage that provides excellent texture, contrast, and color to foundation plantings, shrub borders, and other sunny areas of the landscape. It typically grows very slowly to as much as 10–15 feet tall over 30 years in ideal conditions. Small cones appear only on mature plants. Peeling, reddish-brown bark develops on mature branches.

*Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org*

# PLANTS IN BLOOM

for a complete list of plants in bloom go to www.mobot.org

## January

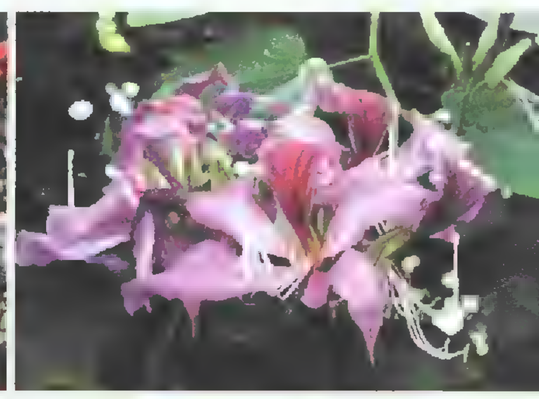


*Camellias in the Linnean House*

*Powder puffs in the Climatron*

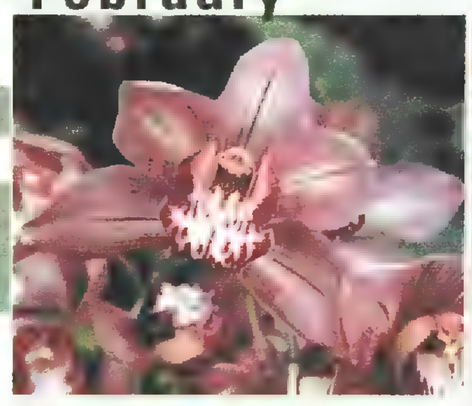
*Vernal witch hazel at the Kemper Center*

*Berries on the Mausoleum grounds*



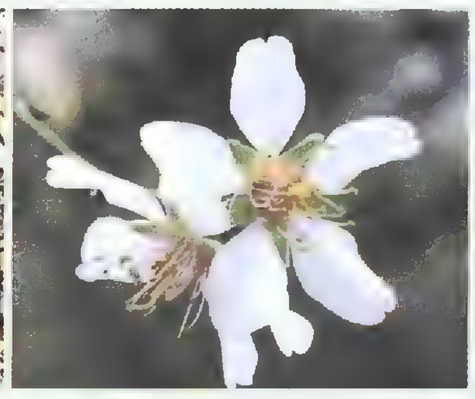
*Hong Kong orchid tree in the Climatron*

## February

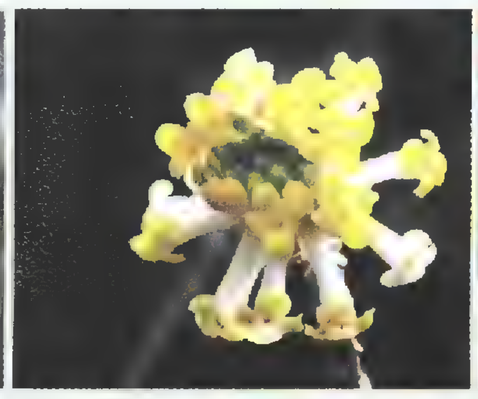


*Orchid Show in Ridgway Center*

*Snow crocus in the Jenkins Daylily Garden*



*Almond in the Shoenberg Temperate House*



*Paperbush in the Shoenberg Temperate House*

*Lenten rose in the English Woodland Garden*

# HOUSEPLANT PERFECTIO

*The Kemper Center for Home Gardening demonstrates houseplants for every location.*

## Keeping Houseplants Healthy

The two most important rules for keeping a houseplant healthy are: select the proper plant for the proper location and maintain sparingly. To help with the first, the Garden's Kemper Center for Home Gardening features a newly expanded selection of houseplants for every level of household exposure, making your choice of a location easier.

Visitors can view literally dozens of plants for each of four residential settings:

*Eastern exposure* represents direct-to-indirect sun suitable for some flowering plants and higher light intensity foliage plants.

*Northern exposure* is for low light tolerant plants, normally those with attractive foliage including variations of color, pattern, and texture.

*Western exposure* is for flowering plants and those that can tolerate heat exposure and fluctuations in moisture.

*Southern exposure* is for our cacti and succulents as it is the extreme in sun and heat for an interior setting.

Site all houseplants, whatever the exposure level, away from drafty heating and air-conditioning ducts.

When it comes to caring for houseplants, home gardeners are prone to "kill with kindness." Overwatering accounts for almost 90% of houseplant fatalities. Water only when plants are dry down to one inch from the surface of the soil, and then water thoroughly with room-temperature water that has been allowed to settle overnight so that fluoride and other gasses have dissipated. Gardeners who find themselves tempted to putter and potentially overwater their houseplants should switch to misting. Nearly all indoor plants prefer a humidity level of 50% or more. Misting plants, as well as wiping down the leaves regularly, improves the relative humidity and the plants' ability to breathe. Trays of pebbles filled with water placed below the pots also allow for low-maintenance evaporation. Fertilize houseplants only two-to-three times per year and only during the growing season (April through June). Pinch back new growth occasionally to encourage a bushy structure, if desired.

## Houseplants for Your Health

In researching methods of cleansing the atmosphere in future space stations to keep them fit for human habitation over extended periods of time, NASA scientists discovered what home gardeners know intuitively: houseplants are good for you! The study, published in 1989, revealed that many common houseplants and blooming potted plants fight indoor pollution. Through ordinary photosynthesis, these plants are able to scrub significant amounts of harmful gases out of the air. Some pollutants are also absorbed and rendered harmless in the soil. Presumably all houseplants are beneficial in this regard, at least to a certain degree, though they haven't all been tested.

NASA scientists studied 19 different plant species for two years. The study recommends growing 15 to 18 good-sized houseplants in 6 to 8-inch diameter containers to improve air quality in an average 1,800-square-foot house. Especially effective in cleaning the air are some of the most common of houseplants, including philodendron, spider plant, peace lily, golden pothos, English ivy, Chinese evergreen, bamboo palm, snake plant (mother-in-law's tongue), and several types of dracaena.

PHOTOS BY JUSTIN VISNESKY

## Houseplant Fun Facts

- The average household has at least one plant. In households where there is more than one plant, the average number is six.
- The most popular times to buy plants are Christmas, Mother's Day, and Easter.
- Among households with more than one plant, preferred locations are:

| | | | |
|---|---|---|---|
| living room | 79% | dining room | 28% |
| kitchen | 51% | bathroom | 12% |
| hallway, entry | 34% | bedroom | 11% |

## Post-Holiday Poinsettia Challenge

Native to Mexico, poinsettias (*Euphorbia pulcherrima*) do not tend to thrive in our drafty St. Louis homes after the holidays. Still, given proper care and location, it is possible for poinsettias to grow into a nice green houseplant, though they rarely reflower. Poinsettias are "photoperiodic" bloomers, requiring total darkness for precise amounts of time before they initiate flowers. The ideal poinsettia situation is warm and sunny by day, dark and cooler at night. Keep the plant away from cold windows or drafts of any kind. Water only when dry and fertilize lightly. Pinch growing tips to encourage a compact, bushy shape.

# THE PLANT SOCIETIES

This list is published twice a year in the *Bulletin* (Jan./Feb., July/Aug.). To change your listing, call (314) 577-0851 or email ellen.flesch@mobot.org. The most current information will be available year-round on the Garden's website: www.mobot.org.

**American Orchid Society**
(Mid-America Regional Judging Committee)
Diana Plahn, (314) 965-5007,
dplahn@aol.com, www.aos.org

**Belleville Area Rose Society**
Dennis Nelson, (618) 233-4609
homepages.ezeeweb.com/rosenut

**Bonsai Society of Greater St. Louis**
Ted Piekutowski Jr., (314) 831-8703,
circustaz2@sbcglobal.net

**Boxwood Society of the Midwest**
Barbara O'Brien, (314) 966-5308,
laughingeagle@msn.com

**Federated Garden Clubs of Missouri**
Jane Merkle, (636) 227-9341
www.gardenclubsofmissouri.org

**Gardeners of America (Ozark Region)**
Don Delmez, (636) 723-2274

**Gateway West Gesneriad Society**
Gary Dunlap, (636) 789-3604,
patspets@jcn1.com

**Greater St. Louis Daffodil Society**
Jason Delaney, (314) 577-0234,
jason.delaney@mobot.org

**Greater St. Louis Dahlia Society**
John Fox, (314) 894-0855

**Greater St. Louis Daylily Society**
Elaine Hogg, (314) 432-4206

**Greater St. Louis Iris Society**
Craig Hughes, (314) 428-8991,
plantman@i1.net

**Henry Shaw Cactus Society**
Eric Driskill, (314) 487-5063,
edriskill@tmail.com, www.hscactus.org

**Metro East Herb Club**
Daphne Sumner, (618) 538-7739

**Metropolitan St. Louis African Violet Council**
Susan Hapner, (314) 434-6397
www.avsa.org/LocalClubs.asp–
Region 7 East Central States

**Mid-America Regional Lily Society**
Fred Winterowd, (314) 423-5313

**Missouri Botanical Garden Daylily Association**
Chick Buehrig, (314) 389-8261,
buehrig31@aol.com

**Missouri Mycological Society**
Maxine Stone, (314) 963-0280,
VeryMaxine@aol.com

**Missouri Native Plant Society**
George Yatskievych, (314) 577-9522,
george.yatskievych@mobot.org
http://web.missouri.edu/~umo_herb/monps/

**Missouri Orchid Society**
Ray Rapplean, (636) 463-2510,
rapplump@gte.net

**North American Rock Garden Society, Gateway Chapter**
Sandy Evertowski, (636) 463-1698,
www.nargs.org/meet/chap_gw.html

**Orchid Society of Greater St. Louis**
Diane Parker, (636) 277-6054,
pattywhack@aol.com

**Rose Society of Greater St. Louis**
Robyn Wilkerson, (636) 225-3852

**St. Louis Carnivorous Plant Society**
Deborah Stopsky,
sleepdreams@addlebrain.com

**St. Louis Evening Herbalists**
Linda Burke, (314) 961-4314,
cleftstone@aol.com

**St. Louis Herb Society**
Nancy Kirchhoff, (314) 249-6395,
stlherbers@aol.com

**St. Louis Horticultural Society**
Mindy Keyser, (314) 994-0275,
salviawrens@sbcglobal.net

**St. Louis Hosta Society**
Sandra Copeland, (636) 447-5980,
sandi@stlouishosta.com
www.stlouishosta.com

**St. Louis Water Gardening Society**
Joan Woelfel, (636) 394-6342,
joan.woelfel@sbcglobal.net,
www.slwgs.org

**Webster Groves Herb Society**
Marge Wilhite, (314) 968-0632,
wilhitemj@aol.com

**West County Daylily Club**
Chick Buehrig, (314) 389-8261,
buehrig31@aol.com

**Wild Ones Natural Landscapers, St. Louis Chapter**
Scott Woodbury, (636) 451-3512,
scott.woodbury@mobot.org,
www.for-wild.org

Rev. 11/17/04

*Wild animals seen at the Garden, believe it or not: possum, turkey, red-tailed hawk, crayfish, and the most recent visitor, the reclusive Garden gnome.*

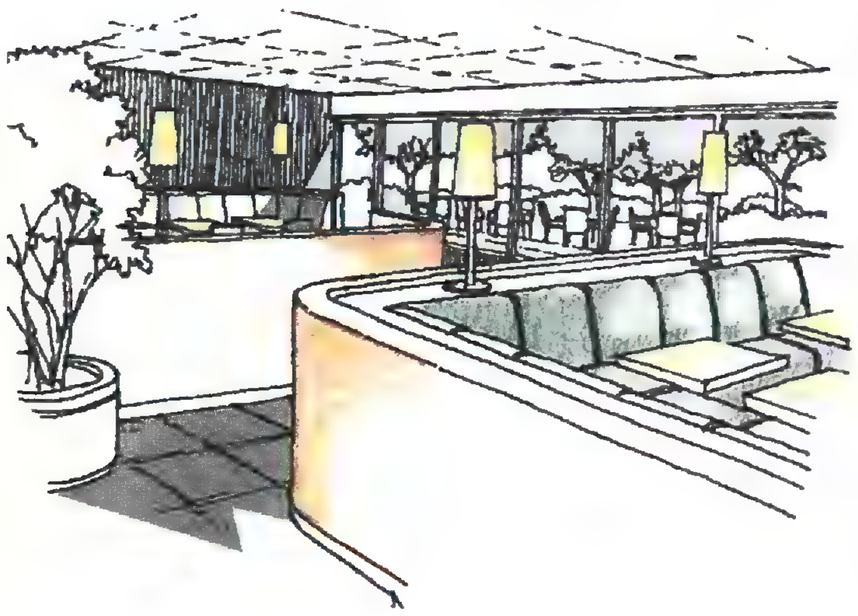
# WILD GARDEN LIFE

Home gardeners know that different plants appeal to different visitors—that includes the feathered and furred varieties of visitors too! We know that as humans continue to develop and settle in formerly "wild" areas, we must work out new ways of living with our animal neighbors. It's not uncommon to hear tales of deer invading the gardens of homeowners in west St. Louis County and beyond. Less common though are tales of wild-life in the city.

The Missouri Botanical Garden, however, features a good-sized (4+ acre) lake in the midst of 79 acres of green space. Adjacent lies Tower Grove Park, at 289 acres, the second largest park in St. Louis City. This unique situation creates a type of "greenbelt" through the urban area, and has made for some unusual visitors to the Garden over the years.

The best spot for wild animal viewing in the Garden is the less populated south end, namely the English Woodland Garden and Japanese Garden. Over the years, staff and visitors in the Japanese Garden have spied blue herons, sandpipers, sandhill cranes, and red-winged blackbirds, as well as snapping turtles, sunfish, and crayfish in the lake. The English Woodland Garden hosts many migrating birds, especially vireos, orioles, tanagers, and warblers—including the mourning warbler and Connecticut warbler, which are difficult to find elsewhere in the region. Other unusual visitors include the occasional rafter of wild turkeys and even a red fox!

Recently, a very shy creature has been sighted in several locations throughout the Garden. Though most attempted photos turn out a blur, the staff recently managed to capture an image of this visitor at dusk (above right), allowing researchers to identify him as the semi-rare northern red-hatted Garden gnome. He was last seen in the Kemper Center for Home Gardening display gardens, where he is thought to have established residence. Kemper Center staff are keeping an eye out for him, but since gnomes are notoriously reclusive, he may relocate if disturbed. We will attempt to track his movements from time to time in the *Bulletin*.



*Artist's rendering of new Café interior.*

## Café Renovations

Pardon our dust! The Garden Café will be closed during the month of January for renovations. During this time, visitors may purchase sandwiches and other snacks from the catering cart (weather permitting). Following another brief closure in March, the total redesign will eventually include carpeted seating areas, new lighting, and booth seating …as well as a revised menu. More details will be included in forthcoming *Bulletin* issues.

## Ring in the New Year: Volunteer!

Make a difference…again. As a member of the Garden, you are already making a difference with your financial contribution. By volunteering, you can make a difference again—with the contribution of your time. Volunteer opportunities exist in almost every area of the Garden, including Communications, Education, Events and Visitor Service, Membership, Research, as well as Horticulture and offsite locations like the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and Shaw Nature Reserve in Gray Summit. This year, be among the first to volunteer at the Garden's new upscale boutique, the Little Shop Around the Corner. For more information about volunteering, call Jackie Juras at (314) 577-5187.


PHOTO COURTESY CATERING ST. LOUIS

Book a space at the Garden for your meeting, wedding, party, or special event any time of the year.

Tel. (314) 577-0200 • Fax: (314) 5777-9216
Email: catering@mobot.org

CATERING ST. LOUIS

*Exclusive caterer of the Missouri Botanical Garden.*


# LITTLE SHOP AROUND THE CORNER

ANTIQUES • HOME & GARDEN FURNISHINGS

PHOTO BY MATT BENDER

Little Shop Around the Corner will be closed during the month of January for cleaning and inventory, but we are still accepting your donations. Whether you are getting a head start on spring cleaning, downsizing from a house to a condo, or just redefining your style, please consider this additional, tax-deductible way to support the Garden. For questions about how or what to donate, or to schedule an appointment, please call the Little Shop at (314) 577-0891.

The Shop will re-open on February 1, Tuesday through Saturday, 10 a.m. to 4 p.m. All proceeds from sales at the Little Shop benefit the Missouri Botanical Garden.

4474 Castleman, St. Louis, MO 63110
(corner of Shaw and Vandeventer) • (314) 577-0891
New Shop Hours: Tues. through Sat.: 10 a.m. to 4 p.m.;
Closed in January. All proceeds benefit the Garden.

## the website...www.mobot.org

**Plant Finder:** Cultural information on over 3,500 plants growing in the Kemper display gardens.

**MBG Collection:** Search the living plant database to find the 14,000 plants growing in the Garden.

**Gardening Help:** Information on over 300 gardening topics, including all Hortline messages.

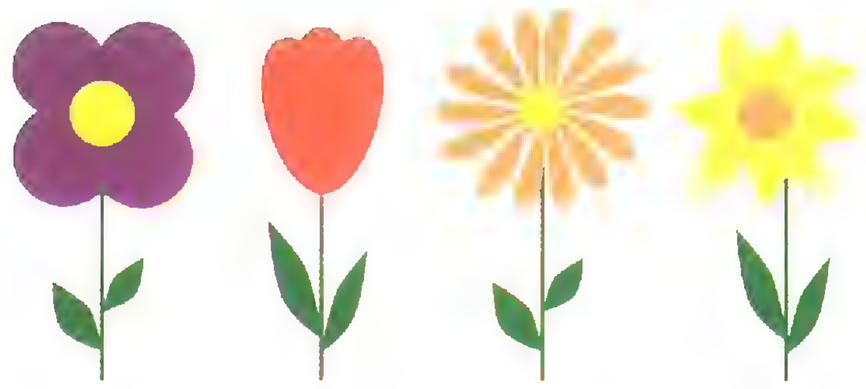
**Integrated Pest Management:** Diagnostic and control measures for nearly 150 of the most common insect, disease, and environmental problems encountered in Missouri.

**Plants of Merit:** Plants selected by local horticulturalists with outstanding qualities for dependable performance in the region.

**Plants in Bloom:** Updated weekly at the Garden, along with current photos, updated biweekly.

*Orchids are a beautiful way to brighten up the gloomy days of winter. The Garden Gate Shop has an extensive assortment as well as books to help you care for them.*

PHOTO BY JUSTIN VISNESKY



# GARDEN GATE SHOP

4344 Shaw Boulevard
(314) 577-5137
Open daily 9 a.m. to 5 p.m., January and February
All proceeds benefit the Garden.

**Closed** January 19–21 for inventory and cleaning.

## SPECIAL EVENTS

| | |
|---|---|
| **Jan. 8** | Children's Story Time, 11 a.m. |
| **Jan. 13** | Members receive 20% off all merchandise |
| | Food tasting, 12–3 p.m. |
| **Feb. 4–6** | Silver Cat jewelry trunk show, 10 a.m. to 5 p.m. |
| **Feb. 11** | Members receive 20% off all merchandise |
| | Food tasting, 12–3 p.m. |
| **Feb. 11–13** | Del Sol jewelry trunk show, 10 a.m. to 5 p.m. |
| **Feb. 12** | Children's Story Time, 11 a.m. |

# TRIBUTES

September–October 2004

*For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.*

## in honor of

**Barbara Barneholtz**
Mr. and Mrs. Marvin Goldman

**Dr. Roger N. Beachy**
Dr. and Mrs. Philip Needleman

**Dr. James C. Bobrow**
Dr. and Mrs. Gilbert Grand

**Mrs. Betty Bridge**
Ellen, Mark and Jennie Levine

**Mrs. Pamela Brown**
Mr. and Mrs. Douglas Brown

**Mrs. Anita Burman**
Mr. and Mrs. Bob Barth

**Mrs. Raymond Carneal**
Thomas Hill Ward Foundation

**Ms. Arlen Chaleff**
Ms. Helen Flegel

**Joyce and James Chrismer**
Andrea Chrismer-Still

**The Cohen Family**
Ellen, Mark and Jennie Levine

**Bob and Norma Downey**
Kevin and Lora Downey

**The Drews Family**
Ellen, Mark and Jennie Levine

**Dr. Bernard T. Garfinkel**
Mr. and Mrs. Preston Bank

**Miss Eugenia C. Henke**
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Dr. and Mrs. Philip Needleman

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**Mrs. Ellen Jones**
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**The Kealing Family**
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**Mrs. Jeanne A. Kennedy**
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Joan Murphy

**Mrs. Kevin A. Maher**
Mrs. Peter A. Edison

**Nicotine Anonymous**
Ms. Christina Pinnell

**Ms. Tess Parhomski**
Mrs. Olivia Kruszynski

**Mr. and Mrs. Francis H. Phelan**
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**The Prey Family**
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Mr. and Mrs. Ken Teasdale

**The Ranger Family**
Ellen, Mark and Jennie Levine

**Mr. and Mrs. William C. Rusnack**
Patricia Arnold
Dr. and Mrs. Stephen F. Bowen, Jr.
Ms. Maureen Phalen and
Mr. Henry Arnold
Mr. and Mrs. Wil Stiles

**The Schwartz Family**
Ellen, Mark and Jennie Levine

**Mr. and Mrs. Carl Schwarz**
Dr. and Mrs. Jerry Meyers

**Mr. Herman Slade**
Mr. and Mrs. Phillip Schreiber

**Zachary Hanan Danque Tuteur**
Drs. Peter and Susan Tuteur

**Blanton and Peg Whimtire**
Tom and Mary Ott

**Mr. George Yatkievitch**
St. Louis Horticultural Society

## in memory of

**Mrs. Juanita Anderson**
Mrs. Helen B. Gross

**Mrs. Hildegarde Angermeyer**
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PHOTO BY JACK JENNINGS

## Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Judi Schraer, Planned Giving Officer, at (314) 577-9455 for further information and a complimentary brochure. Visit our informative new website at www.mobot.org. Click on Membership, then Planned Giving Guide.

* deceased

PHOTO BY JC LANE

## Preschool Fun and Fitness

Preschool education and fitness are in full flower at the Garden this spring. Whether your child or grandchild is a Little Sprout (ages 2–3) or a Garden Bud (ages 4–5), these exciting programs for you and your little one explore early childhood curiosities about plants and the natural world. Classes start January 13. Also back by popular demand, Strollerobics offers a fun, low-impact workout for all fitness levels. The eight-week series of classes begin the week of March 13. Advance registration is required for all preschool programs, and class size is limited, so please call (314) 577-9506 today for more information.

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# MEMBERS' ENTRY COURT

*Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from September 15, 2004 through November 15, 2004.*

bronze signature bricks

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engraved clay brick

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Ms. Nancy Woodall

# CALENDAR OF EVENTS

Missouri Botanical Garden Library
3 1753 00321 1189

**Closings**

- Garden Café will be closed for renovations until February.
- Spink Gallery will be closed for renovations until February.
- Tower Grove House continues to be closed for renovation.
- Trams do not run during winter months of December, January, and February.

## January

**Through Sun., Jan. 2**
"Gardenland Express: Vintage St. Louis" holiday flower and train show.

**Jan. 5, 9, & 12**
Camp Bug-A-Loo: "Nature's Alphabet I–P." For kids ages 2-4 with a parent or guardian. Wed.: 9:30 to 10:30 a.m. Sunday: 2 to 3 p.m. $13 per class ($9 for members). Pre-registration is required; call (636) 530-0076, ext. 13. BH.

**Sat., Jan. 8**
BUZZ: "Be an Insect Keeper." For kids ages 8–12. Classes are $13 ($9 for members). Parent or guardian attendance required. Class size is limited to 20. Call (636) 350-0076, ext. 13. BH.

**Mon., Jan. 10 through Fri., Feb. 18**
"Images Through the Eye of Craig D. Barton" an exhibition of color landscape photography. RC.

**Thurs., Jan. 13**
**Members' Day: Greening Your Home and Office. See page 9.

**Sat. & Sun., Jan. 15 & 16**
Tour the EarthWays Center, a Victorian house renovated to demonstrate energy-efficient materials, systems, and practices. Tours on Saturday and Sunday at 11 a.m., noon, and 1 and 2 p.m.; $2 (free for members). EH.

**Sat., Jan. 22**
Hula Hoopla. See page 11. BH.

**Fri., Jan. 28**
** Members' Event: Orchid Show Preview. See page 8.

**Sat., Jan. 29 through Mar. 13**
"Orchid Island" annual orchid show. See page 8. Also: exhibit of orchid photography by Charles Rowden.

## February

**Through Mar. 13**
"Orchid Island" annual orchid show. See page 8. Also: exhibit of orchid photography by Charles Rowden.

**Tues., Feb. 1 & 15**
"Gourmet in the Garden: Mediterranean." See page 9 for details.

**Feb. 2, 13, & 16**
Camp Bug-A-Loo: "Nature's Alphabet Q–Z." For kids ages 2–4 with a parent or guardian. Wed.: 9:30 to 10:30 a.m. Sun.: 2 to 3 p.m. $13 per class ($9 for members). Pre-registration is required; call (636) 530-0076, ext. 13. BH.

**Sat. & Sun., Feb. 5 & 6**
Missouri Orchid Society show and sale. RC.

**Fri., Feb. 11**
**Members' Day: Houseplants: Living Décor. See page 9.

**Sat., Feb. 12**
**Members' Event: Valentine's Day Dinner Dance. See page 7.

BUZZ: "Don't Eat Me." For kids ages 8–12. Classes are $13 ($9 for members). Parent or guardian attendance required. Class size is limited to 20. Call (636) 350-0076, ext. 13. BH.

**Sun., Feb. 13**
"Celebrate the Gospel." See page 7.

**Sat., Feb. 19**
"Parsley, Sage and Thyme Together" cooking class designed to introduce parents and children (age 8 and up) to the delights of fresh herbs from potting and care with the St Louis Herb Society to cooking with Linda Pilcher of Something Elegant Catering. This program is presented by MBG and WE CAN DO IT! Women Working for Healthier Families and will benefit The St Louis Breast Cancer Coalition. 10 a.m. to noon. KC. Fee is $30, includes one adult and one child. Class size is limited to 20, so register soon by calling (314) 989-1111.

**Sat. & Sun.,**
Tour the EarthWays Center, a Victorian house renovated to demonstrate energy-efficient materials, systems, and practices. Tours on Saturday and Sunday at 11 a.m., noon, and 1 and 2 p.m.; $2 (free for members). EH.

**Sun., Feb. 20**
"Celebrate the Gospel." See page 7.

*Vanishing Beauty*

**Sat., Feb. 26 through Sun., Apr. 10**
Over 40 oil paintings by Nigel Hughes capturing the rarest bird family in the Americas, the Cracidae. Due to hunting and habitat loss, nearly one-third of these beautifully plumed birds are endangered, and certain species are on the very edge of extinction. RC.

### 2005 Members' Days and Events

| | |
|---|---|
| **Thurs., Jan. 13** | "Greening Your Home and Office" with Jean Ponzi* |
| **Fri., Jan. 28** | Orchid Show Preview |
| **Fri., Feb. 11** | "Houseplants: Living Décor" with Rolling Ridge Nursery* |
| **Sat., Feb. 12** | Valentine's Day Dinner Dance |
| **Feb. 23 and 26** | Butterfly House Tours |
| **Thurs., Mar. 10** | Water Gardening with the St. Louis Water Garden Society* |
| **Thurs., Mar. 26** | Eggstravaganza |
| **Tues., Apr. 5** | Perennials with Judy Moskoff and Bonnie Hamid* |
| **Thurs., May 26** | Rose Evening |
| **Fri., Jun. 3** | Musical Evening |
| **Sun., Jun. 12** | Garden Tour |
| **Fri., Jul. 8** | Antique Appraisials with Ivey-Selkirk |
| **Fri., Aug. 26** | Shade Gardening with Cindy Gilberg* |
| **Thurs., Sep. 15** | Bulb Gardening with Jason Delaney * |
| **Sat.-Sun., Oct. 1–2** | Best of Missouri Market |
| **Fri., Oct. 14** | Sculpture Tour of the Garden with Mary Jane Kirtz* |
| **Fri., Nov. 4** | Holiday Decorating* |
| **Wed., Nov. 30** | Holiday Show Preview |
| **Sat., Dec. 3** | Breakfast with Santa |
| **Sat., Dec. 10** | Holiday Concert |

**Members receive 10% off in the Café and 20% off in the Garden Gate Shop on all Members' Days.*

## the key

| | | | |
|---|---|---|---|
| CA = Cohen Amphitheater | GGS = Garden Gate Shop | MC = Monsanto Center | SP = Spink Pavilion |
| CL = Climatron | JG = Japanese Garden | RC = Ridgway Center | ** denotes a members-only event. |
| EH = EarthWays Home | KC = Kemper Center | SNR = Shaw Nature Reserve | $ denotes an additional fee. |

*All events are free with admission or membership unless otherwise noted.*

PHOTO BY JACK JENNINGS

# WHERE IS IT?

100% new-tree-free!

See page 3 for details.

Plants aren't the only things that grow in the Garden's greenhouses. In winter, the difference between exterior and interior temperatures creates the perfect conditions for beautiful ice crystals to form on the windows of the Linnean House. They are a delicate extra treat for visitors in January and February, who can also enjoy the gorgeous profusion of camellias (see page 7).

## important numbers

| | |
|---|---|
| Communications: | (314) 577-0254 |
| Corporate Partners: | (314) 577-9495 |
| Education—children | (314) 577-5140 |
| —adults | (314) 577-9441 |
| —seniors | (314) 577-9506 |
| Development | (314) 577-5120 |
| Events hotline | (314) 577-9400 |
| —toll-free | 1-800 642-8842 |
| Facility Rental | (314) 577-0200 |
| Garden Café | (314) 577-5196 |
| Garden Gate Shop | (314) 577-5137 |
| Horticulture Answer Service | (314) 577-5143 |
| Membership | (314) 577-5118 |
| Planned Gifts | (314) 577-9455 |
| Tourism | (314) 577-0275 |
| TDD (hearing impaired) | (314) 577-9430 |
| Tribute Gifts | (314) 577-5118 |
| Volunteer Services | (314) 577-5187 |

## contact information

Missouri Botanical Garden (314) 577-5100
4344 Shaw Boulevard, St. Louis, MO 63110

Butterfly House (636) 530-0076
15193 Olive Blvd., Faust Park, Chesterfield, MO 63017

EarthWays Center (314) 577-0220
3617 Grandel Square, St. Louis, MO 63108

Little Shop Around the Corner (314) 577-0891
4474 Castleman Drive, St. Louis, MO 63110

Shaw Nature Reserve (636) 451-3512
Hwy. 100 & I-44, Gray Summit, MO 63039

**Hours**
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Parking is free.

**Admission** (*special events require an additional fee*)
Adults (13–64)....$7
Seniors (65+).....$5
Members and children 12 and under.....free

Residents of St. Louis City and County receive over 50% discount on admission and free admittance on Wednesday and Saturday mornings from 9 a.m. to noon (except during all special events).

**Editor:** Elizabeth McNulty
**Designer:** Ellen Flesch
**Cover photos:** J.J. Lane
**Back cover photo:** Jack Jennings
**Photo credits for center montage:** Lisa Francis, Jack Jennings, Charles Schmidt, and Diane Wilson

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MISSOURI BOTANICAL GARDEN

# Bulletin

March/April 2005 Vol. 93, No. 2

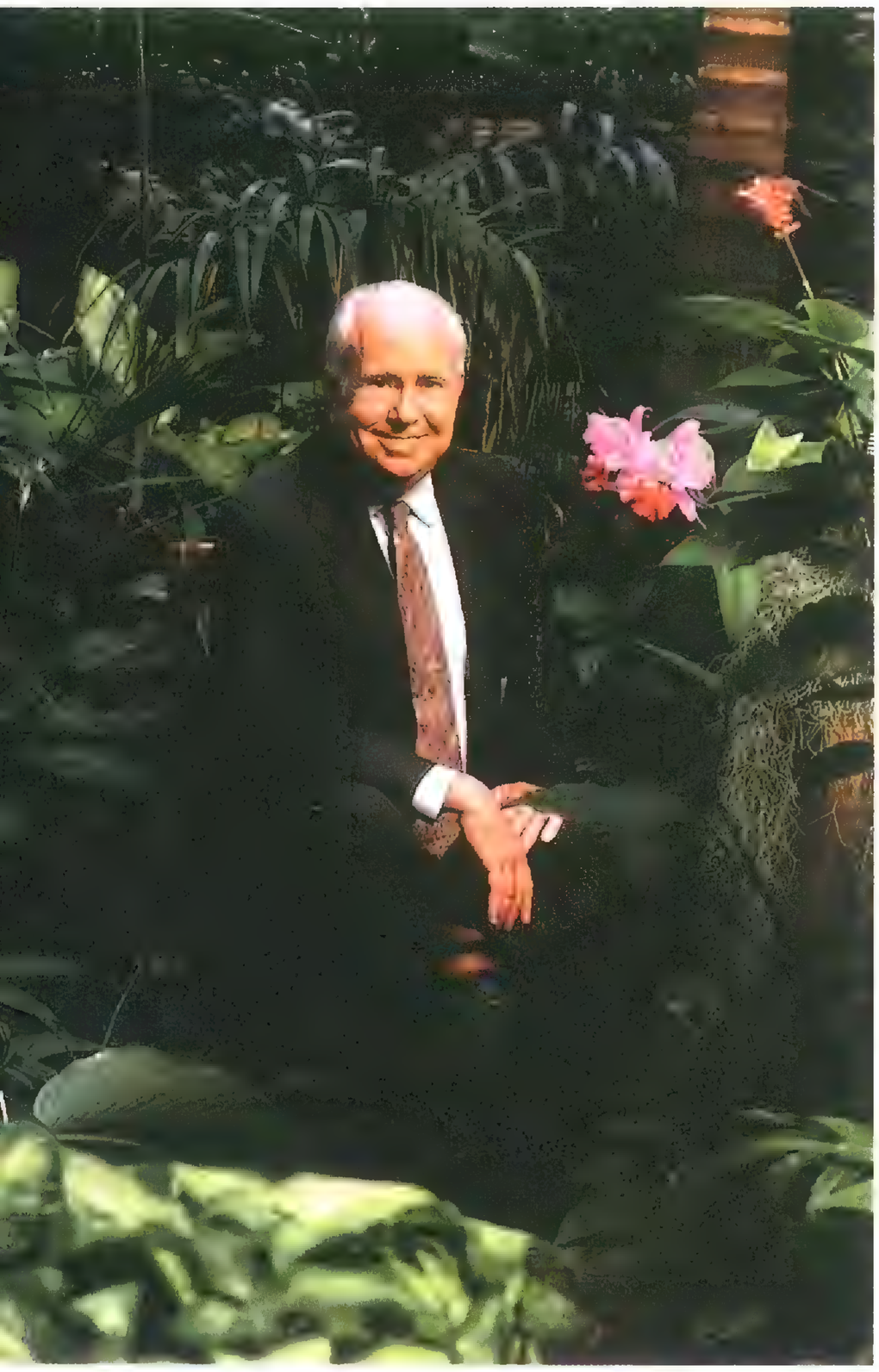

PHOTO BY PETER HOWARD

# from the director...

Springtime is a time of rejuvenation, and we are living spring more than ever before at the Garden. Thanks to the generosity of our many donors, members, and friends through the Stewards of the Earth campaign, the Garden is renovating old systems, improving infrastructure, and rejuvenating Garden amenities such as parking, the Spink Gallery, and the Café.

Big improvements are underway and we couldn't do it without the many people dedicated to our mission—people like Members' Board officers. Welcome, Nancy Sauerhoff, new Members' Board president. Thank you, Marsha Rusnack, outgoing president, for your service to the Garden.

The Garden is fortunate to have the leadership and support of our dedicated trustees during these exciting developments. On February 12, the Garden celebrated Bill Orthwein Day in recognition of both his 30th anniversary as a Garden trustee and his birthday. Happy Birthday, Bill!

Another anniversary being celebrated is the first year of the Commerce Bank Center for Science Education. One of the first major projects completed during the Stewards of the Earth campaign, the Center was made possible by the generosity of the William T. Kemper Foundation and Commerce Bank. This leadership gift has enabled the Garden to further our efforts to improve math and science education throughout the St. Louis region.

As we enter the homestretch of the Stewards of the Earth campaign, I know that I can count on all of you, our members, to help the Garden achieve our goals. As we celebrate Earth Day, let us remember that we humans have been using the world's resources unsustainably. If we deplete them, we will leave a poorer, less healthy world for our children. What kind of world are we going to settle for?

Peter H. Raven

Peter H. Raven, *Director*

*To discover and share knowledge about plants and their environment, in order to preserve and enrich life.*

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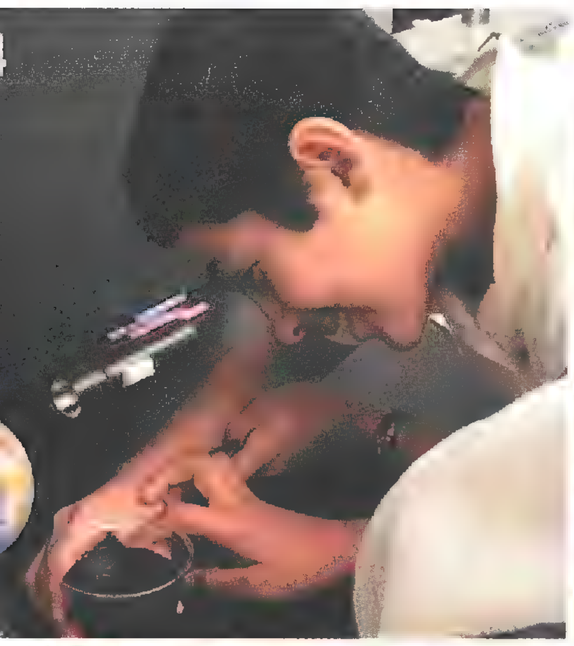

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**23** **Calendar**


## editor's note...

Nature's roller coaster is chugging up that first hill right now through a light muddy drizzle. Later this month we'll start the Garden's head-rushing plunge into a bloom cycle of over 65,000 crocus, hyacinths, daffodils, and tulips. Springtime at the Garden isn't just about bulbs, it's also about azaleas, dogwoods, and wildflowers in the English Woodland Garden (page 18), and about music and poetry and peace (page 8).

Members are invited to bring little ones to the Garden's annual egg hunt (page 9). Sign up now for the SpringDig on March 19, and get a jump on your backyard this spring, or enroll in one of over 130 classes covering everything from Annuals to Zoysia (pages 16–17). Members enjoy early enrollment privileges for all classes for adults and kids, including the very popular summer programs. With classes for children from pre-kindergarten all the way up to high school, Camp MBG is perfect for an entire bunch of brothers and sisters (page 22).

This April 23, the *Bulletin* celebrates our first Earth Day on 100% post-consumer recycled paper. Thanks to everyone who wrote in about the change. To answer a few questions: 100% post-consumer paper is not available with a glossy coating and the reason we didn't make the transition until now is cost. Recycled papers are, perhaps counter-intuitively, more expensive than virgin-tree papers—an issue of demand, making the Garden's decision to purchase this paper even more important. We're helping pave the way for everyone to buy affordable, recycled papers some day. Happy Earth Day!

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

### Comments from readers

*The new* Bulletin *looks wonderful! And I feel good knowing it's helping to conserve our planet's precious resources.*

*— Beth Alseth*

*It's not enough that we recycle paper, we must also buy and use recycled paper products and you've shown us how to do this. Congratulations on leading the St Louis community in your ecological initiatives!*

*—Barb Abeling*

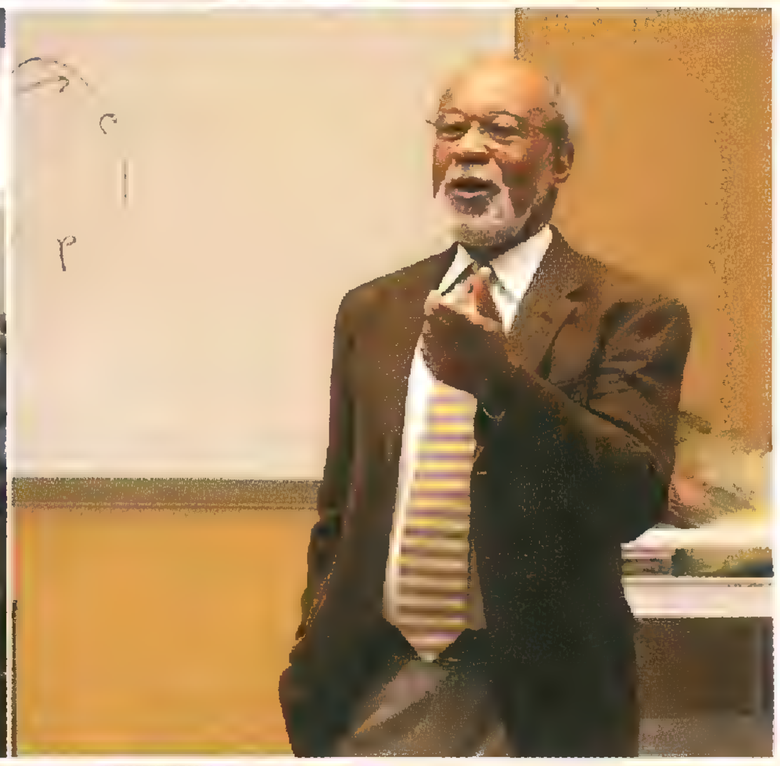
*I confess, I love to get the hardcopy* Bulletin *with beautiful pictures in the mail, so I really appreciate your move to 100% post-consumer recycled paper.*

*—Jesse Hoagland*

*The cover has a much more stunning effect: no reflection, no fingerprints. Congratulations!*

*—Jon Cournoyer*

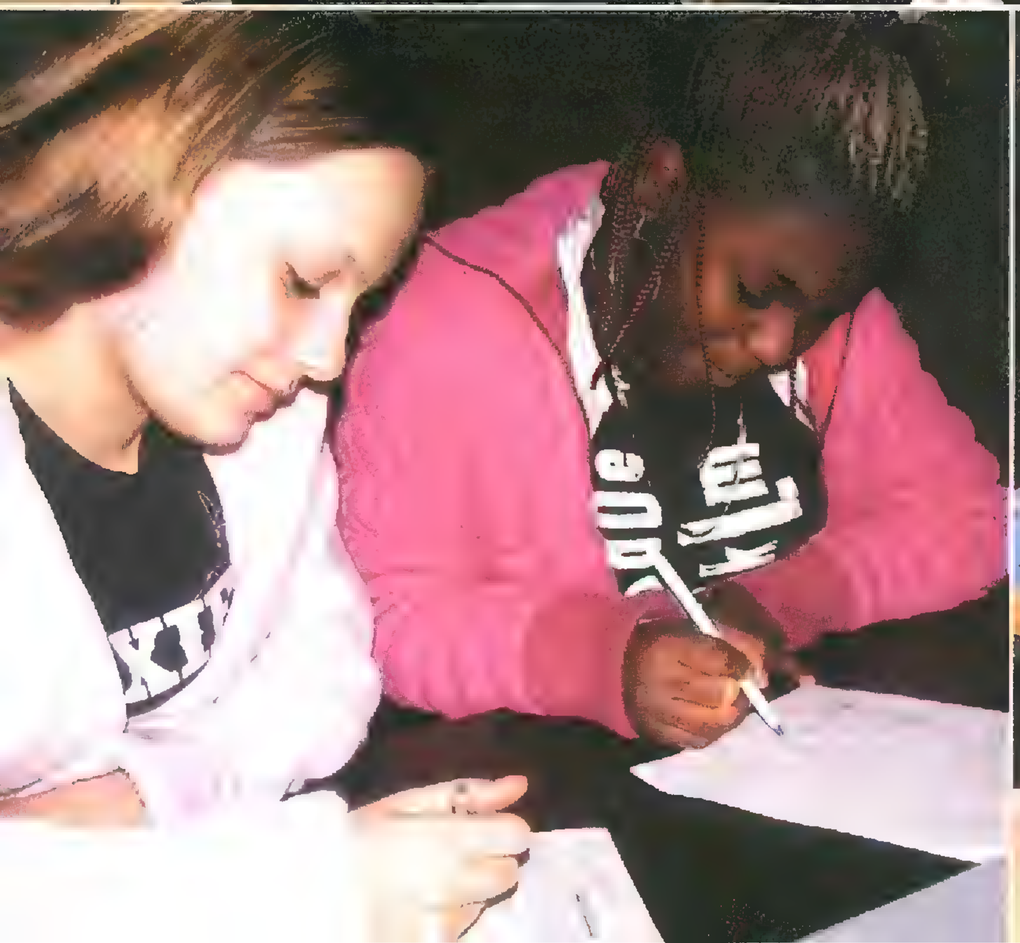
100% post-consumer recycled paper
manufactured with 100% wind power



# *Stewards of the Earth*

the Campaign for the Missouri Botanical Garden

*Photos: Fifth-graders from Fanning Middle and third-graders from Meramec Elementary are just two of the hundreds of classes that now study science at the Commerce Bank Center for Science Education. St. Louis Community College uses the Center for Italian language classes (top center). Over 500 teachers participated in professional development training during the Center's first year (third row). Students in Garden Education Compact engage in inquiry-based study of math and science, with the goal of improving school test scores in these areas.*



## Happy First Birthday Commerce Bank Center for Science Education!

The Commerce Bank Center for Science Education turned one quietly last fall, but teachers and instructors were so busy with the students and professionals pouring into this state-of-the-art facility that they didn't have time for a party. "As a local resource for science instruction, the Center is unique!" says Dr. Luther Williams, the William T. Kemper Director of Education and Interpretation. "The community has recognized this, as our growing roster of classes confirms."

Made possible by the generosity of the William T. Kemper Foundation and Commerce Bank, the Center boasts 24,000 square feet of educational space with a host of cutting-edge features:

- Well-equipped science laboratories for both student classes and teacher training. Educators immerse their students in hands-on, minds-on science experiments conducted at lab benches equipped with electrical and gas outlets. Students and teachers make use of microscopes, a large biosafety cabinet, centrifuges, a spectrometer, pH meters, scales/balances, hot plates, refrigerator/freezer, and an assortment of other lab ware.
- Modular classrooms equipped with "wifi" (wireless Internet) and "smart boards" (digital write-on boards). Modular structure allows the rooms to be used not only for traditional classes, but for computer-based instruction and even limited wet laboratory experiments.
- A computer lab, devoted to GIS and other learning technologies, which serves as the core of the instructional connectivity among the Garden's satellite locations. Over 30 workstations with individual printers, instructor computer, data connectors, smart board and projection screen.
- The Stupp Teacher Resource Center with both traditional as well as online resources.
- An integrated high-technology conference room.

The Center has increased the scope and dimension of the science teaching and learning infrastructure with great success. It serves to unite the Garden's various education venues—Butterfly House, EarthWays Center, Litzsinger Road Ecology Center, and Shaw Nature Reserve—remotely via online connectivity. It also serves year-round as the focal resource for the Garden Education Compact schools, part of the Garden's ongoing commitment to math and science education in the St. Louis Public Schools. Over 3,500 students attended classes in this inaugural year.

Educational use of the Center is open to the broad St. Louis community, including St. Louis city and county, and the surrounding counties of both Missouri and Illinois. With its proximity to the Hill, the Center currently hosts the St. Louis Community College Italian language classes, and plans to open for greater use by local organizations, youth groups, and universities. Higher education is also served by access to the latest resources and enhanced offerings for teacher training. Five hundred teachers participated in professional development classes during the first year, and another 500 availed themselves of the Stupp Teacher Resource Center.

First-rate facilities enable first-rate staff and volunteers to realize the full potential of their talents. Infrastructure investments made through the Stewards of the Earth campaign, such as the Commerce Bank Center for Science Education, enable the Garden's staff and volunteers to enhance and expand existing programs, and to offer new opportunities.

### Educators of Excellence

Good teachers are a vital resource for the future, as well as some of the most important, influential people in our children's lives. The Educators of Excellence wall at the Commerce Bank Center for Science Education provides a space for public acknowledgement of teachers. An engraved plaque on the Educators of Excellence wall is a way for a graduating class to thank their teacher, or for parents to recognize the extra effort, or for colleagues to celebrate a fellow teacher's anniversary or retirement. The annual fee is a renewable $150. After the initial gift year, if unrenewed, the engraved plaque is given to the honoree as a cherished memento. For more information on this new tribute opportunity, call (314) 577-0874.

### Join Us

PHOTO BY TRENT FOLTZ

"This drive provides a unique opportunity to participate in the future of the Garden," says Director of Development Patricia Arnold. For more information on how you can help, please contact the Development Office at (314) 577-5120.

# NEWS

PHOTOS BY DIANE WILSON

## Members' Board

New Members' Board officers (*from left*): Joan Sheppard, Corresponding Secretary; Becky Scott, Second Vice President; Nancy Sauerhoff, President; Laure Hullverson, Treasurer; Sally Cohn, First Vice President, and absent from the photo is Terry Beachy, Recording Secretary.

New Members' Board members pictured with the new President (*from left*): Lucy Ryan, Patty Heim, Nancy Sauerhoff (President), Beth Sankey, Suzanne Deutschmann, Terry Rassieur, and absent from the photo is Vickie Newton.

ARTWORK BY NIGEL HUGHES

## Vanishing Beauty

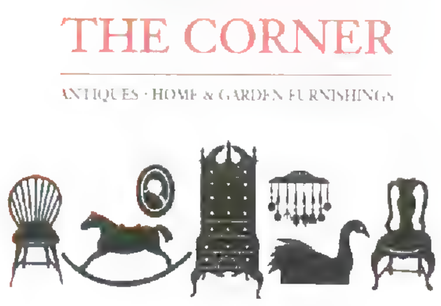
*Now through Sunday, April 10*

Don't miss this exhibit of paintings by Nigel Hughes capturing the rarest bird family in the Americas, the Cracidae. Because of hunting and habitat loss, nearly one-third of these beautifully plumed birds are endangered. In cooperation, the Saint Louis Zoo is featuring a temporary display of the helmeted curassow and the piping guan, a close cousin to the horned guan, one of the most critically endangered species.

On Friday, April 8, at 5:30 p.m., Garden members are invited to a special closing lecture presented by Dr. Iván Jiménez Marcos and Dr. Peter Jørgensen on ecology and distribution of these rare birds and the effects of habitat destruction.


LITTLE SHOP AROUND THE CORNER

ANTIQUES · HOME & GARDEN FURNISHINGS



*Spring Cleaning?*

Please consider donating those unwanted antiques, and vintage home and garden treasures to the Little Shop. It's one more tax-deductible way to support the Garden!

4474 Castleman, St. Louis, MO 63110
(corner of Shaw and Vandeventer) • (314) 577-0891
Open Tuesday through Saturday, 10 a.m. to 4 p.m.;
All proceeds benefit the Garden.


## Got Smarts?

Beginning this March, the Garden and KETC–Channel 9 are partnering to make it easier for kids to learn about nature in spring and environmental issues. Channel 9's children's website, KETC Kids, will feature the theme of "Springtime" in March with a section on the Butterfly House. In April the website will feature an "Environment" section in honor of Earth Day, with a section on the Garden. Not only will visitors learn more, but they will also find related online games to play, books to read, and activities to do at home—all at www.ketc.org.

## Corporate Partners

The Corporate Partners program strengthens the relationship between the Garden and the corporate community in the greater St. Louis region. Become a Corporate Partner today! For information, call Katherine Kornfeld at (314) 577-9513.

We are pleased to recognize our current corporate partners:

**Principal Level ($25,000 and above)**
Commerce Bank
Monsanto Company
Schnuck Markets, Inc.

**Shareholder Level ($10,000 to $24,999)**
A.G. Edwards
Anheuser-Busch Companies, Inc.
The Boeing Company
Bryan Cave LLP
Bunge North America
CBIZ Business Solutions of St. Louis, Inc.
The May Department Stores Company
Sigma-Aldrich Corporation

**Underwriter Level ($5,000 to $9,999)**
Alberici Constructors
Atomicdust
Brown Shoe Company, Inc.
BSI Constructors, Inc.
Edward Jones
Regions Financial Corp.
U.S. Bank, N.A.

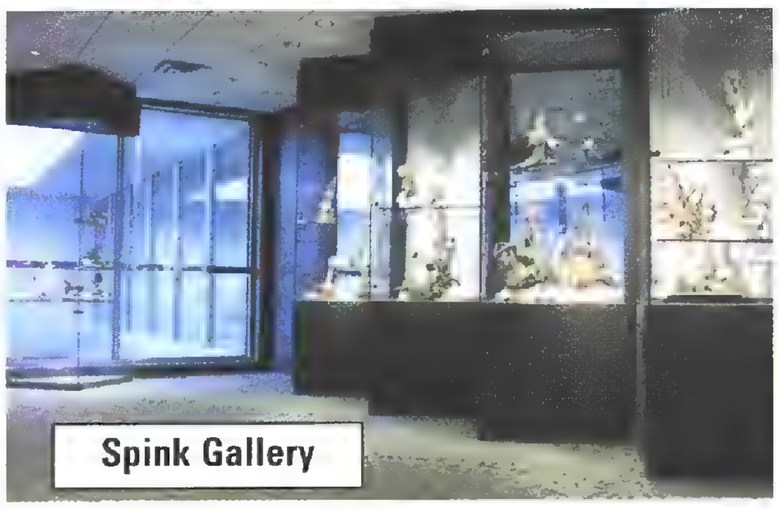
**Supporter Level ($1,000 to $4,999)**
Blue Cross Blue Shield of Missouri
Catering St. Louis, Inc.
Christner, Inc.
CIC Group, Inc.
Dierbergs Markets, Inc.
Fabick Companies
Forms Distribution Corporation
General Motors Corporation
Graybar Foundation
Hager Companies
HOK
Laclede Gas Company
McCarthy Building Companies, Inc.
National City Corporation
The Private Bank
Sansone Group
SSE
Stone Carlie & Company
Thompson Coburn LLP Attorneys at Law
Tyco Healthcare/Mallinckrodt
Willaredt Acres, Incorporated

PHOTOS BY RAMON CUSI, EMILY SNIDER, JUSTIN VISNESKY, BETH HAINES, AND DAVID RABEHEVITRA

Garden Café

RailCruise Winner

MBGnet


Spink Gallery

Reclining Figure II

New Herbarium

## Pardon Our Dust!

The first stage of café renovations were completed January 3–28. Workers replaced the ceiling, installed a skylight, and painted. Look for a grand re-opening after another brief closure March 11–25 to finish carpeted areas, booth seating, and lighting. A snack cart will be available during these weeks.

## Spink Gallery Renovation

In January, Garden workers renovated the Spink Gallery, installing new lighting and carpeting, and reconfiguring the impressive displays of Boehm porcelain. Donated to the Garden by Mrs. Edith Spink and her late husband, Mr. C.C. Johnson Spink, the collection consists of meticulous recreations of birds and flowers. Of special interest are the "Birds of Peace," the original of which was presented by Nixon to Mao in 1972, and the American eagle presented to John F. Kennedy by the Democratic Party of New Jersey in 1961. All pieces were inspected and cleaned by conservator Hal Blagbrough.

## New Transportation Hub

Slated for completion in spring, the new multi-modal parking center at the intersection of Vandeventer and Shaw serves as a transfer point for several Metro bus routes, providing enhanced public transportation for neighborhood residents, as well as better accessibility to the Garden. The lots also provide overflow parking for some 300 vehicles, a boon for Garden visitors during well-attended events. Funded by the Stewards of the Earth campaign, the construction also received additional support from the Missouri Department of Transportation.

## RailCruise Winners

Thousands of visitors to Gardenland Express entered their names into a drawing for RailCruise America tours. Three lucky people won passes for four on the popular RailCruise America dinner cruise. Pictured above is prize-winner Gene Butler. Flanking him are the Garden's East Side Marketing Officer Lynn Kerkemeyer and Jan Anderson, Vice President Marketing and Sales for RailCruise America. Other winners (*not pictured*): Nick Laffler and Doris Balthrop.

## Moore on the Move

Henry Moore's *Reclining Figure II* (1959–60) is one of a pair of bronze sculptures given to the city of St. Louis by Howard and Isabel Baer in 1961. Originally at Lambert Airport, the pair was loaned to the Garden in 1969. In 1981, *Figure I* was relocated to the Saint Louis Art Museum's outdoor sculpture court, leaving *Figure II* alone at the Garden. Over 20 years later, the pair is set to be reunited. On November 4, 2004, workers removed the sculpture from Garden grounds. Look for it at the Saint Louis Art Museum later this year.

## Top 50: MBGnet

*Scientific American* magazine unveiled its third annual Sci/Tech Web Awards, naming the 50 best Internet resources for science learning. The Missouri Botanical Garden's own MBGnet made the list. The site, which provides a guide to ecosystems around the globe, was described by the competition's editors as "…a colorful and educational cornucopia of info, tempting visitors to find out about the vegetation and climes where they live and to branch out into the unknown to explore the rest of the world." Check it out at: http://mbgnet.mobot.org.

## Madagascar Milestone

The herbarium in Antananarivo, Madagascar, is a central resource for the Garden's program for the study of this African island nation's rich, unique, and highly threatened flora. Of the over 100,000 dried specimens of Malagasy plants, however, some 35,000 remained unprocessed in storage because of lack of space. On December 13, 2004, a new herbarium extension more than doubling the size of the original was opened. Construction resulted from a collaboration of the Parc Botanique et Zoologique de Tsimbazaza in Antananarivo, the Missouri Botanical Garden, the Winslow Foundation, and the National Geographic Society. Cutting the ribbon above is Dr. Randrianandraina Faneva, assisted by the Garden's Chris Birkinshaw.

# EVENTS

PHOTO BY ELIZABETH MCNULTY

*Orchid Island 2005*
*Now through Sunday, March 13; 9 a.m. to 5 p.m.; Ridgway Center*
*Admission plus $3 for adults and children; $2 for seniors (65+). Free for members!*

## Orchid Island: Only 2 More Weeks

*Now through Sunday, March 13, 9 a.m. to 5 p.m.*
Don't miss the last two weeks of Orchid Island. This year's orchid show features the Garden's award-winning collection displayed in a desert isle theme, creating a fragrant floral paradise in the middle of winter. What visitors are saying…

*"Orchids and background extremely well integrated. Most beautiful show I have seen here. Plants were in top condition and transported you to another place."*

*"Exquisite—the lovely variety of orchids, the different sizes and colors. The overall design and arrangement of foliage and flowers is breathtaking. Wonderfully relaxing viewing. Each time I return, I see something new."*

Orchids are swapped out throughout the show, so return visitors are often rewarded with new colors and species. Make a date to escape to Orchid Island one last time.

## Arbor Day

*Friday, April 1, while supplies last,*
*Kemper Center for Home Gardening*
To celebrate Missouri Arbor Day, the Garden will give away 300 saplings, one per person. Species this year include two easy-to-grow Missouri natives: sour gum (*Nyssa sylvatica*), a medium-sized tree with wonderful red fall color; and red oak (*Quercus rubra*), another medium-sized tree that enjoys full sun. Also included in the give-away, Norway spruce (*Picea abies*), one of the few needled evergreens that can withstand both cold and heat. Master gardeners will be on hand to answer questions.

PHOTO BY ALAN STENTZ

*Sour gum* (Nyssa sylvatica) *in autumn*

## Sweet Sounds of Spring: Music

*Sundays, April 3–May 1, noon*
Now in its 18th season, Classic 99's "From the Garden, Live"® concert series features a wide range of classical and popular music by prominent St. Louis musical groups. Concerts are broadcast live on Classic 99; check the website www.classic99.com for performer details. Tickets are complimentary, but required, so please call (314) 725-0099.

## Sweet Sounds of Spring: Poetry

*Saturday, April 9, noon to 2:30 p.m.*
In recognition of National Poetry Month, the Garden is pleased to co-sponsor "Poetry and Gardens." Performers include Colorado poet Pattiann Rogers, the author of *Firekeeper* and winner of five Pushcart Prizes; Bobby Norfolk; Riverview Garden High School students; storyteller-poet Sylvia Duncan, leading Mitchell Elementary School authors.

## World T'ai Chi Day

*Saturday, April 30, 10 a.m. to 1 p.m.*
On the last Saturday of April each year at 10 a.m., a soothing event unfolds around the Earth, time zone by time zone: World T'ai Chi and Quigong Day. These ancient Chinese arts have been used for centuries to enhance vitality and promote self-healing with gentle movements suitable for all age groups. Practitioners will demonstrate this graceful discipline, and visitors are invited to participate as well.

PHOTO BY DIANE WILSON

*T'ai Chi Day celebration*

PHOTO BY GERRIT DAVIDSE

*Costa Rica: one of many countries where Garden researchers are working to document and save endangered ecosystems.*

## Earth Day at the Garden

*Saturday, April 23, 10 a.m. to 3 p.m.*

Earth Day was founded in 1970 as a way to organize and call attention to rising public concerns about the environment. As one of the many "Earth Day Around Town" activities on Saturday, you can learn what you can do to ensure a healthy future for the planet from the Earth Share of Missouri organizations and the Garden's Eco-Adventures program. Horticulture staff will lead special, behind-the-scenes tours of the Garden greenhouses at 10 a.m., noon, and 2 p.m. Enjoy bluegrass music by the Flying Mules on Spoehrer Plaza from 1 to 3 p.m. Earth Day activities also take place at the Butterfly House in Chesterfield.

See page 11 for details.

## Illinois Appreciation Week

*Saturday, April 23 through Saturday, April 30*

*Eckert's Garden Party, Friday April 22, 5:30 to 8 p.m.*

For the third year, Illinois residents get a special invitation to cross the river and visit the Garden during a beautiful week in spring. Invite your Illinois friends who may not yet be members to experience the joys of the Garden. With proof of residency, they'll receive two-for-one admission and a 10 percent discount in the Garden Gate Shop. Sponsored by the Illinois *Suburban Journals*.

**Garden Party** Eckert's Garden Center on Green Mount Road in Belleville, IL, is hosting a Garden fundraiser on Friday, April 22 from 5:30 to 8 p.m. Wine and food tastings, gardening and floral arranging demonstrations, and Missouri Botanical Garden experts will be on hand for a fun evening of garden-related entertainment, all for $10 per person ($8 for Garden members). Proceeds raised will support the Garden's outreach efforts in Illinois. For more information, call (618) 650-5743 or visit: www.eckerts.com.

# FOR MEMBERS ONLY...

## Creating a Water Feature in Your Home Landscape

*Thursday, March 10, 11 a.m., Shoenberg Auditorium*

Discuss location, types of construction, and how to blend a water feature into your existing landscape with contractor John Nies. St. Louis Water Gardening Society members will be on hand to answer your questions.

PHOTO BY JOSH MONKEN

*Eggstravaganza*

## Eggstravaganza

*Saturday, March 26, 10 a.m. to 12:30 p.m., Climatron lawn*

Hop over to the Garden for our annual Eggstravaganza egg hunt! Members are invited to enjoy refreshments while the little ones (ages 2–10) hunt for eggs and meet the "Bunny." Egg hunts start at 10:30, 11, 11:30, and noon, and begin promptly, so be sure to allow enough time to walk to the Climatron lawn. Space is limited, so please reserve early by calling (314) 577-5154.

## How Does Your Garden Grow?

*Tuesday, April 5, 11 a.m., Shoenberg Auditorium*

Gateway Greening volunteers Judy Moskoff and Bonnie Hamid present the best of perennial gardening in St. Louis: what varieties work best, ways to combine plantings, and a demonstration of no-fail dividing techniques.

## Save the Date: Garden Tour 2005

*Sunday, June 12, 10 a.m. to 4:30 p.m.*

Once every three years, the Garden hosts a very special tour of private home gardens. Circle the date on your calendar now and watch the mail for your invitation. Self-guided and bus tour tickets will be available.

# GARDEN AT LARGE

PHOTO COURTESY SHAW NATURE RESERVE

*Shaw Nature Reserve's new sod house features a living sod roof, which should bloom with wildflowers this spring.*

## Save the Date: Wildflower Sale

The annual Shaw Nature Reserve Spring Wildflower Sale takes place Saturday, May 7, from 9 a.m. to 4 p.m. Hundreds of varieties of wildflowers, ferns, trees, and shrubs for home landscaping and attracting wildlife. Back by popular demand: Garden members' sneak preview sale on Friday afternoon! Look for more details in the next *Bulletin*.

## SHAW NATURE RESERVE

### Little House on the Prairie

*Shaw Nature Reserve*
*Hwy. 100 & 44 (exit 253)*
*Gray Summit, MO 63039*
*(636) 451-3512*
*www.shawnature.org*

Tall-grass prairie is, itself, a novelty for the curious visitor to the Shaw Nature Reserve, but Reserve staff have recently added another: a sod house.

Inexpensive, renewable, and easy-to-build, sod houses were the shelter of choice for thousands of settlers on the prairie, back when tall grasses covered all level parts of central North America from Texas to Ontario. "Soddies" continued to be built in some areas of the U.S. well into the 20th century, but are today relatively scarce.

"Pioneers could build a modest sod house in about a week," says special projects coordinator Barbara Troutmann, who was placed in charge of the difficult task of researching and organizing the project. "Our crew, which varied in numbers from two to six, worked sporadically for about a month and a half!"

Situated in the midst of the Reserve's 250 acres of restored tall-grass prairie, the soddie incorporates the most common features of a typical, 19th-century sod home. It is a single, 12x16-foot room, with one door and two windows set into 2-foot thick walls. It was constructed of 4-inch thick sod slabs and finished with cedar harvested from the Reserve during ecological restoration work.

The roof is low-rise, gabled, and finished with living sod that is expected to sprout beautiful wildflowers. Don't miss this glimpse of the beauty of prairie life this spring.

EARTH CENTER WAYS

3617 Grandel Square
St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org

*EarthWays Center is a division of the Garden that promotes practical options for conservation of natural resources—at home, at school, in the workplace, and within local governments.*

## EARTHWAYS CENTER

### *In The Air*, Across the Nation!

*by Jean Ponzi, Program Manager*

National distribution is underway for *In The Air*, a major new environmental education resource developed for the U.S. Environmental Protection Agency by EarthWays Center's Margaret Lilly, Glenda Abney, and Eleanor Hall. This curriculum addresses issues and actions related to air pollution through five modules geared for kindergarteners to adults and was rigorously reviewed by regional and national experts in education and science.

*The EPA's new environmental education curriculum on air pollution, developed by members of the EarthWays Center.*

The authors were challenged to present complexities of scientific fact, health issues, and environmental protection needs in a positive context through original activities for all ages. Combining historical, scientific, and public health perspectives as a background, the authors provide plenty of participatory activities for the classroom—such as a primary-grade puppet play, a lively chapter book for elementary readers, and a home-improvement skit for teens and adults. All sections encourage learners to make up their own minds about air pollution issues based on research and observation and show them how to take action in reasonable ways.

The U.S. EPA offers all of these materials at no charge at www.intheair.org.

# The Butterfly Page

Butterfly House
15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

PHOTO BY MARK DEERING

*Spring Azure* (Celastrina argiolus)

## The Butterflies of Spring

*by Mark Deering, Curator of Butterflies*

As spring blooms in St. Louis, so do our butterflies. The Native Habitat at the Butterfly House is a great place to see these fragile beauties, along with the plants that sustain them.

Different butterflies have different strategies to survive the winter months. Some spend the winter as adults, under leaves or the bark of trees. They include the Comma (*Polygonia comma*), the Question Mark (*Polygonia interrogationis*), the Mourning Cloak (*Nymphalis antiopa*), and others. These butterflies are seen even in winter during those unusual warm January days.

Other butterflies spend the winter curled at ground level as caterpillars, or as chrysalides. Perhaps the true harbinger of spring, then, is the first butterfly to emerge from a chrysalis—the Spring Azure (*Celastrina argiolus*)—seen flitting through the Native Habitat before most of the flowering trees have bloomed. Next, the tiny Orange Tipped (*Anthocharis midea*), only ¾-inch across, flies for two weeks or so in March or April. There is only one generation per year of this fleeting little insect, so try to see them if you can!

By the warm weather of May and June, the other spring residents have made their appearance. Cabbage Whites (*Pieris rapae*), Spicebush Swallowtails (*Papilio troilus*), Tiger Swallowtails (*Papilio glaucus*), and many others arrive. Later in the summer we will see some of the emigrant species such as Red Admirals (*Vanessa atlanta*) and Cloudless Sulphurs (*Phoebis sennae*).

During most years, butterflies can be found in the Native Habitat until the first hard freeze. It is a beautiful, relaxing setting in which to observe and photograph these animals. So come on out, and enjoy watching these creatures at their daily activities.

## Tributes

### November–December 2004

*For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-0297.*

**in honor of**

**Wilma Messing**
Evelyn and Eric Newman

**in memory of**

**Rosemary Frede**
Jules and Shirley Snitzer

**Clarence Palmer**
Jules and Shirley Snitzer

**Audrey Sharamitara**
Susan Harrison

## Pavers

### November–December 2004

*Pavers are a great way to recognize graduations, weddings, engagements, Mother's Day, Father's Day, birthdays, as well as a memorials. For information call Juanita Jahn at (314) 577-0297.*

**Angel, Bear, Blaze, Phoebe, Sophie, and Sandy**
Judy Rosen

**Dorothy Barnard**
Charles and Joyce Abel
Harriet Ann Taylor

**Dusty, Tucker, Neiko**
Juanita Jahn

**Jackson E. Emerson**
Doug and Patti Reisinger

**P. Goodwilling**
Mona Jackson
Your BI Buds

**Ann Hatchell**
Michele Hall

**Mary Kathryn Kraemer**
Robyn Conroy
Tom Ruzicka

**Floryne and Murry Marks**
Jason and Sara Marks

**Peg McClure**
Charles and Joyce Abel

**Sharon McCune**
Shirley Tucker

**Kathleen Murphy**
Ellen Camp
Stephanie McCormack
Carmella Mattingly
Debbie Pini

**Judy Scott**
Bob and Stacy Cockerham
Erika, Alicia, Ryan, Brandon
Quentin, Sabrina and Abby

**Paula Marie Shannon**
Carol and Bill Bennett
Roy and Barbara Hofmann
Erick and Joan Fusselman
Margaret DeBrecht
Amy DeBrecht
Gina Shannon

**Ruth Ella and Dorsey E. Stout**
Darcy Stout Capstick and Lincoln S. Capstick, Jr.

**Reviviam Thompson**
Judy Taxman

**Bob Wright**
Teresa Perryman
Michele Gutermuth
Rob Wright

## Events

### Earth Day Celebration

*Saturday, April 23, 11 a.m. to 2 p.m.*

This Earth Day, you have the whole world in your hands! Designed for children ages 3–12 years, Earth Day craft projects let creativity shine while using recycled objects. Free with regular admission. No reservations required.

### *Smithsonian* Museum Day

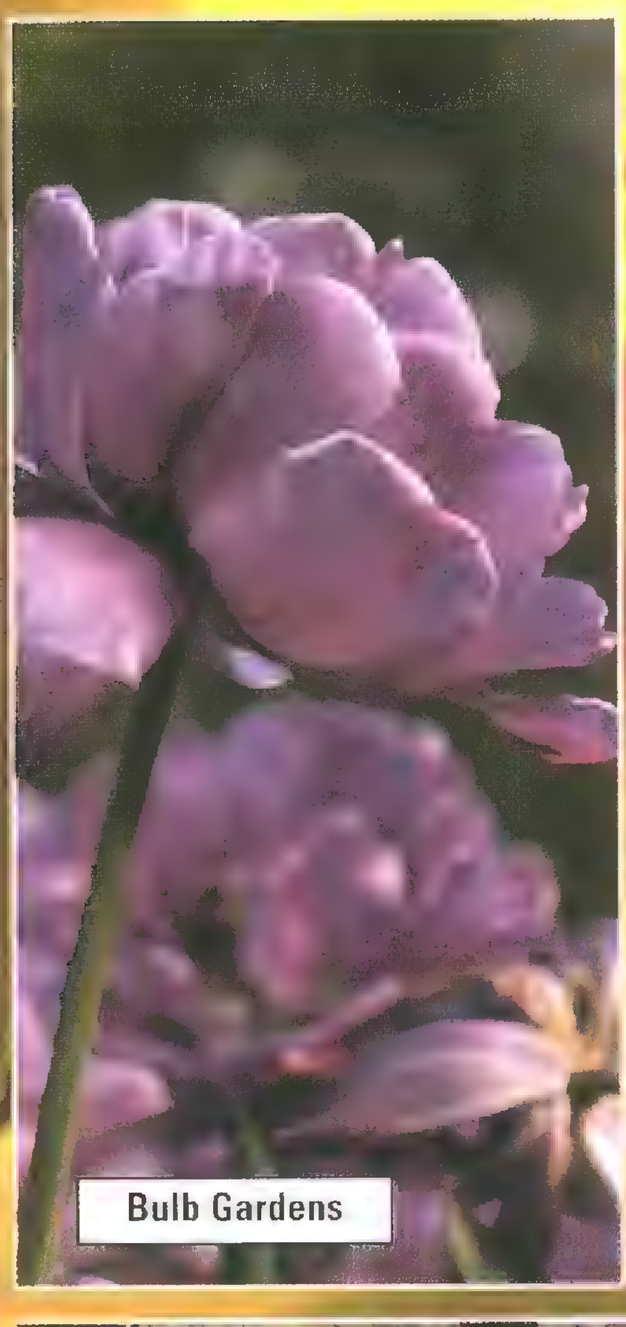
*Saturday, April 30, 10 a.m. to 4 p.m.*

For *Smithsonian* magazine's 35th anniversary, museums nationwide are opening their doors. Admission to the Butterfly House for two adults is free for one special day when visitors present a Museum Day card (found in the April 2005 issue of *Smithsonian* magazine).

### Save the Date: Mother's Day Brunch

*Sunday, May 8.*

Join us on the beautiful Emerson Lakeside Terrace for our third annual Mother's Day Brunch, catered by Russo's Gourmet. Reservations begin April 15 and fill quickly. Call (636) 733-2339 for reservations.


Bulb Gardens

Weddings at the Garden

Magnolia Walk

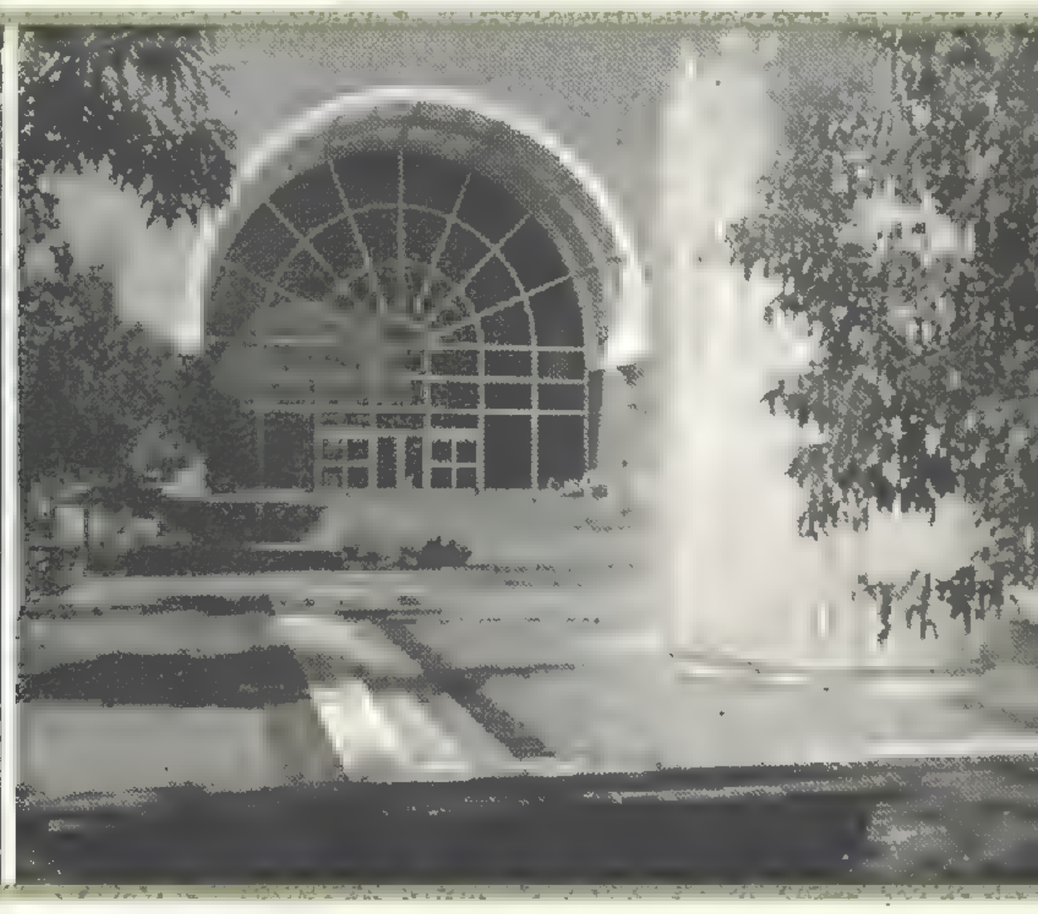
Eggstravaganza

Crocus

Azalea-Rhododendron Garden

# Stewards of the Earth

the Campaign for the Missouri Botanical Garden



**ABOVE:** Pagoda in the Chinese Garden; Ridgway Center renovations are ongoing.

## Help Preserve your Favorite Structures

Garden members have the opportunity to sustain some of their favorite areas of the Garden with gifts made in the few remaining months of the Stewards of the Earth Campaign. Several of the Garden's most popular structures will be restored to their original condition after years of weathering and wear.

» The Tower Grove House, where Henry Shaw planned his garden, will reopen to the public by the end of this year.

» The Pagoda in the Chinese Garden will be repaired and repainted by the end of April.

» In the Japanese Garden, the foundation supporting the picturesque Drum Bridge will be rebuilt. The rangui posts bordering the pond will be replaced.

» Equally important for the Garden's 650,000 visitors each year, the parking lot at the Ridgway Center will be refurbished with a new surface and better lighting.

» Many more improvements are being made that visitors need but never see, such as replacing worn out heating and mechanical systems with modern, energy efficient equipment.

The Garden was overdue for $16.5 million in restoration and repairs before the Campaign. Gifts are still needed to meet the expenses of work that is already underway.

Gifts of any amount can be directed to the Garden's preservation needs. A pledge of $1,000 a year for five years qualifies the donor for permanent recognition in the Garden.

# Campaign Benefits Being Realized

**ABOVE:** Ongoing Children's Garden construction scheduled for completion in 2006. Statue of George Washington Carver by noted sculptor Tina Alen.

With less than a year remaining until the conclusion of the Stewards of the Earth Campaign, time is running out for Garden members to be counted among those whose gifts have sustained and enhanced Henry Shaw's legacy.

The benefits of the Stewards of the Earth Campaign will be enjoyed by Garden visitors for generations to come. But its impact is evident already.

Visitors can see substantial progress being made on three of the Campaign's most significant capital improvements: the Doris I. Schnuck Children's Garden, George Washington Carver Garden, and Garden District improvements.

## THE CHILDREN'S GARDEN

Construction of the Children's Garden began in August 2004 and work will continue through 2005 on the $4 million project. The new Garden should be open in early 2006, providing a learning adventure for up to 150,000 children and their families annually.

Attractive naming opportunities remain available from $10,000 each, as the Campaign seeks to complete the last $1 million in funding for the Garden.

## THE CARVER GARDEN

Ground will be broken this spring for the Carver Garden, which will celebrate the philosophy and botanical contributions of this Missouri native. Tina Allen, the noted African-American sculptor, has completed the life-sized statue of Dr. Carver that will be the centerpiece of the Garden. Until construction is completed this fall, the statue will be placed on display in Spoehrer Plaza.

Approximately $1.3 million in gifts, grants, and pledges has been secured toward the $2 million Campaign goal for

**ABOVE:** Neighborhood revitalization includes beautification projects and a new multi-modal transportation hub.

the Garden. The significance of the Carver Garden has been underscored by Larry Cohn's $500,000 challenge gift. Gifts supporting any of the Campaign's remaining goals will be counted toward meeting the Cohn challenge.

## THE GARDEN DISTRICT

The Campaign is honoring Henry Shaw's mandate to assure that the areas adjacent to the Garden be "pleasant and attractive." A massive redevelopment effort funded by gifts, grants, and developer investments will provide new homes, beautification, and a public transportation hub for the neighborhoods surrounding the Garden. The Campaign seeks $3 million in gifts and grants to complete the projects.

Working with neighborhood associations and the Garden District Commission, the Garden began in 1996 acquiring abandoned and distressed neighborhood properties. With a grant from the Missouri Department of Transportation and a private gift, the Garden is developing these properties into a multi-modal center for several METRO bus routes. Residents can walk, bicycle, or drive to this location to board buses, using parking lots that also provide the Garden's visitors with off-site parking.

Gifts supporting the remaining goals of the Campaign can provide donors with naming opportunities. To find out how you can help enhance Henry Shaw's legacy, call Patricia Arnold at (314) 577-5120.

# Make Your Gift Count

We are grateful to donors for their contributions to the Stewards of the Earth campaign for the Missouri Botanical Garden.

All gifts and pledges directed to campaign objectives and payable within a period of five years or less will count toward the campaign goal. There are many ways to make a gift:

***Outright gifts*** include cash, check, or credit card. They are the easiest and most direct way to benefit the Garden, and are tax deductible to the full extent allowed by law.

***Securities*** entitle you to a charitable deduction for the fair market value of the donated asset, and you may avoid paying capital-gains tax you would otherwise pay upon the sale of the appreciated securities.

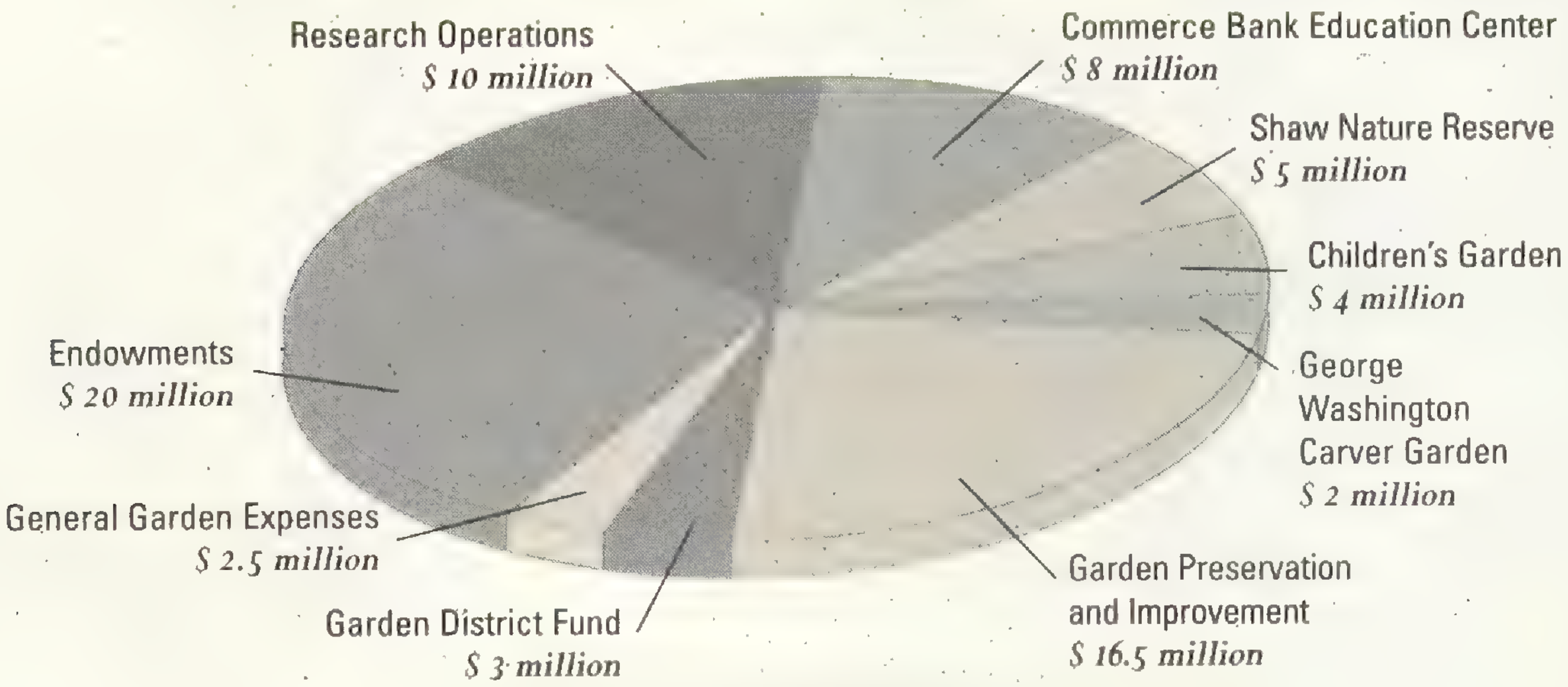
***Planned gifts*** may allow a donor to make a sizable gift to the Garden and continue to receive income from the gift for his/her lifetime. It will also generate a charitable income tax deduction in the year of the gift.

***Charitable bequests*** in your estate plans may be committed to the endowment objective of the campaign, specified as a sum, a percentage, or in specific assets such as real estate. Such bequests are not subject to estate or inheritance taxes, significantly reducing the tax burden. The value of the bequest may be deducted when the taxable estate is determined, and there is no limit to the deduction.

We recommend that all those considering a commitment to the Garden do so in consultation with his or her own legal or financial advisor. Donors should pay particular attention to annual deductibility limits to ensure maximum tax effectiveness of each gift.

For more information, please contact the Development Office at (314) 577-5120.

# Campaign Goals




# Campaign Progress: COMMUNITY PHASE

*This chart represents gifts acquired and needed at the mid-range level . Your participation is greatly appreciated.*

*We are grateful to donors for their contributions to the Stewards of the Earth campaign for the Missouri Botanical Garden through January 1, 2005.*

## *most distinguished benefactors*
*$10,000,000 or more*

Mr. and Mrs. Jack C. Taylor

## *distinguished benefactors*
*$3,000,000 to $9,999,999*

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Rebecca L. Scott
Tower Grove House Auxiliary
Laurie A. and Raymond R. Van De Riet
Ann and Eric Weidmann
Luther S. and Constance M. Williams

** deceased*

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William H.T. Bush
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Robert R. Hermann
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Ralph Korte
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John K. Wallace, Jr.
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## You can help!

"This drive provides a unique opportunity to participate in the future of the Garden," says Director of Development Patricia Arnold. For more information on how you can help, please contact her office at (314) 577-5120.

MISSOURI BOTANICAL GARDEN
P.O. Box 299 • St. Louis, MO 63166-0299
(314) 577-5100 • www.mobot.org

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# Spring fever at the Garden!

PHOTO BY LISA FRANCIS

*Overseeding spring lawn*

FROM THE KEMPER CENTER FOR HOME GARDENING...

# WHAT TO DO IN THE GARDEN THIS MONTH

## March

### All month

*Vegetables:* Fertilize while preparing the soil for planting. Visit the SpingDig for a free soil test (see page 17 for details).

*Ornamentals:* Clean up beds by removing all weeds and dead foliage. Dormant mail-order plants should be unwrapped immediately. Keep the roots from drying out, store in a cool protected spot, and plant as soon as conditions allow. Trees, shrubs, and perennials may be planted as soon as they become available at local nurseries.

*Fruits:* Gradually remove mulch from strawberries as the weather begins to warm.

*Houseplants:* Repot rootbound plants, moving them to containers 2 inches larger in diameter than their current pot. Check for insect activity; control as needed. Prune leggy plants.

*Turfgrass:* Mow lawns low to remove old growth before new growth begins.

### Week 1

*Vegetables:* Delay planting if the garden soil is too wet. When a ball of soil crumbles easily after being squeezed together in your hand, it is dry enough to be safely worked. Asparagus and rhubarb roots should be planted as soon as the ground can be worked.

*Ornamentals:* Seeds of hardy annuals such as larkspur, bachelor's buttons, and california poppies should be direct sown in the garden now. Heavy pruning of trees should be complete before growth occurs.

*Fruits:* Prune grapes and apples. Tie vines to the trellis before the buds swell to prevent bud injury and crop loss.

### Week 2

*Vegetables:* Plant peas, lettuce, radishes, kohlrabi, mustard greens, collards, turnips, potatoes, spinach, and onions (seeds and sets) outdoors.

*Ornamentals:* Summer and fall blooming perennials should be divided in spring.

*Turfgrass:* Apply controls for wild garlic. It will take several years of annual applications for complete control.

### Week 3

*Vegetables:* Plant beets, carrots, parsley, and parsnip seeds outdoors. Set out broccoli, cabbage, brussels sprouts, chinese cabbage, and cauliflower transplants into the garden.

*Ornamentals:* Apply sulfur to the soils around acid-loving plants such as azaleas, rhododendrons, hollies, and dogwoods. Apply a balanced fertilizer to perennial beds when new growth appears. Plant spring bedding plants outdoors now. Cut ornamental grasses to the ground as new growth begins.

*Fruits:* Apply dormant oil sprays now. Choose a dry day when freezing temperatures are not expected.

*Turfgrass:* Apply broadleaf herbicides now for control of cool-season perennial and annual weeds. These must not be applied to areas that will be seeded soon.

### Week 4

*Vegetables:* Start seeds of tomatoes, peppers, and eggplants indoors.

*Ornamentals:* Gradually start to pull back mulch from rose bushes.

*Fruits:* Peaches and nectarines should be pruned just before they bloom. Mulch all bramble fruits for weed control.

*Turfgrass:* Thin spots and bare patches in the lawn can be overseeded now.

## April

### All month

*Turfgrass:* Start mowing cool season grasses.

### Week 1

*Vegetable:* Start cucumber, cantaloupe, summer squash, and watermelon seeds indoors. Finish sowing seeds of all cool-season vegetables not yet planted outdoors. Plants started indoors should be hardened off before being transplanted. Asparagus and rhubarb harvests begin.

*Ornamentals:* Winter mulches should be removed from roses. Complete pruning promptly. Remove only dead wood from climbers at this time. Cultivate lightly, working in some compost or other organic matter.

Shrubs and trees best planted or transplanted in spring, rather than fall include butterfly bush, dogwood, Rose of Sharon, Black gum (Nyssa), vitex, red bud, magnolia, tulip poplar, birch, ginkgo, hawthorn, and most oaks.

*Fruits:* Plant bareroot or potted fruits as soon as the soil can be worked. Remove tree wraps from fruit trees. Prune peaches and nectarines.

*Miscellaneous:* Mount a rain gauge near the garden to track precipitation. Most gardens need about 1 inch of rain per week between April and September.

## Week 2

*Vegetable:* Finish transplanting broccoli, brussels sprouts, cabbage, and cauliflower plants into the garden. Sow seeds of hardshell gourds indoors. Soak seeds overnight before planting. Thin out crowded seedlings from early plantings of cool-season crops such as beets, carrots, lettuce, onions, and radish.

*Ornamentals:* Examine shrubs for winter injury. Prune all dead and weakened wood. When crabapples are in bloom, hardy annuals may be transplanted outdoors. Fertilize established roses once new growth is 2 inches long. Do not prune boxwoods before April 15.

*Fruits:* Destroy or prune off webs of eastern tent caterpillars. Protect bees and other pollinating insects.

*Turfgrass:* Aerate turf if thatch is heavy or if soil is compacted. Topdress low spots and finish overseeding thin or bare patches. Apply crabgrass preventers before April 15. Do not apply to areas that will be seeded.

## Week 3

*Vegetable:* Try an early sowing of warm-season crops such as green beans, summer squash, sweet corn, New Zealand spinach, and cucumbers. Flower stalks should be removed from rhubarb plants, if they develop.

## Week 4

*Vegetable:* Begin planting lima beans, cucumbers, melons, okra, and watermelons. Begin setting out transplants of tomatoes, eggplants, peppers, and sweet potatoes.

*Ornamentals:* Easter lilies past blooming can be planted outdoors. Mulch well. Shear evergreen and deciduous hedges. Begin planting out summer bulbs such as caladiums, gladiolus, and acidanthera. Prune spring-flowering ornamentals after they finish blooming.

# FEATURED PLANT OF MERIT

PHOTO BY ALAN STENTZ

## Spicebush

*Lindera benzoin*

A native Missouri deciduous shrub, Spicebush grows 6–12 feet high in average, medium-wet, well-drained soils in full sun to part shade. Golden fall color is best in sunny areas. Spicebush Swallowtail butterfly larva feed on the leaves. Tiny greenish-yellow flowers bloom along the branches in early spring, giving way to bright red drupes attractive to birds. However, female plants need a male pollinator in order to set fruit.

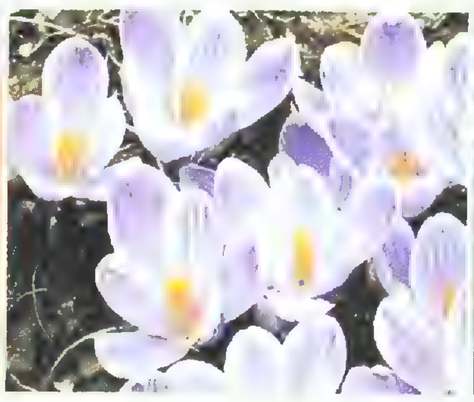
*Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org*

# IN BLOOM

for a complete list of plants in bloom go to www.mobot.org

## March

*Daffodils in the Rock Garden*



*Crocus on the Lehmann Building lawn*

*Camellias in the Linnean House*

*Calla lilies in the Temperate House*

*Magnolia Walk*

## April

*Tulips in the Bulb Gardens and Linnean grounds*

*Hyacinths in the Bulb Gardens*

*Yoshino Cherry Trees in the Japanese Garden*

*Azalea-Rhododendron Garden*

*Flowering Crabapple Tree at the Kemper Terrace Garden*

# SCHOOL'S IN

From Annuals to Zoysia, the Garden offers classes for adults taught by local experts on everything a St. Louis-area gardener would want to know. But that's not all: there are classes in arts and crafts, cooking and wine, photography and floral design, and more. And these classes are now offered at five locations, including Lewis & Clark Community College in Edwardsville, Illinois. Not only is garden school just getting into session, but school at the Garden is also "in," as in "popular."

"There has been tremendous response to the new locations and new course offerings," notes Adult Education Coordinator Glenn Kopp. "There are more classes than ever before—over 130. One-third of them are new, others are returning favorites."

New plant care classes include "Pretty Partners for Shade" to get those creative combinations rocking no matter what the lighting situation. Newbies might want to take a five-week crash course on "What Every Gardener Should Know," while horticulture professionals and advanced gardeners will appreciate classes focused on popular trends like "Summer Flowering Bulbs," presented by the Garden's bulb expert, Jason Delaney.

Horticulture staff and Garden docents lead informative walking tours through the English Woodland and Japanese gardens. Go behind the scenes, with tours of the greenhouse orchid range, or of the Garden's fascinating 150-year old Archives, where you'll see some of Shaw's personal childhood effects.

PHOTO BY DIANE WILSON

*Touring the Samuel and Heckman Bulb Gardens with the Garden's nationally renowned bulb expert Jason Delaney.*

Let the "The Everyday Gourmet" teach you the basics of eating well with minimum fuss. What do leather or tobacco or black currants taste like? Learn to describe the many flavors of wine, and more. Whether your interests lie in the "Basics of Birding" or the "Basics of Photography," there's something for everyone.

Classes take place on Garden grounds in St. Louis, at the EarthWays Center in midtown, at Shaw Nature Reserve in Gray Summit, at the Daniel Boone Library in Ellisville, and at Lewis & Clark Community College in Edwardsville, Illinois.

### Did you get your catalog?

Classes fill up quickly, but Garden members get the first opportunity with early enrollment. Members also receive discounts on all classes of up to 20% off. Course catalogs were mailed in February. If yours has gone astray, check out the classes online at the Garden's website: www.mobot.org/gardeninghelp, or call (314) 577-9441.

PHOTO BY JUSTIN VISNESKY

### GNOME-ans land: it's definitely for the birds!

Last issue, we revealed that a red-hatted gnome had been spotted in the Garden around Christmas. Since that article, we have received several reports locating the gnome as a temporary resident of the Lang Family Bird Garden. A National Wildlife Federation's "habitat site," the Bird Garden displays good host plants for birds, such as dense plantings of deciduous and evergreen shrubs and berry-producing hawthorn and holly trees. It is a particularly active area of the garden in winter, when birds are most in need of food and shelter—perhaps too active for our gnome. Since the multiple sightings a few weeks back, our reclusive friend has once again disappeared into the eight acres of display gardens surrounding the Kemper Center. We will continue to track his movements and invite visitors to keep an eye out for him too.

## SpringDig

*Saturday, March 19, 9:30 a.m. to 3:30 p.m., $40 ($35 for members)*
You've heard of a Missouri shindig. Now, welcome to the Missouri Gardening Help SpringDig! Come on down and get a full day of demonstrations, presentations, and good solid advice from local authorities on gardening in the St. Louis climate. Topics range from Plants of Merit and best perennials, to soil perfection and preventing plant disease. Learn to attract the animals you want—birds, bees, butterflies—and deter the ones you don't.

Bring a sample from home and take advantage of free pH soil testing from 11 a.m. to 2 p.m. Plant Doctors will be on hand to answer your individual questions. Learn how to get the most out of the Garden's 5,000+ webpages of gardening info and take a peek at the results of the Garden's plastic pot recycling program: a plastic "lumber" display and sale. Advanced registration required, please call (314) 577-9441.

PHOTO BY DIANE WILSON

*SpringDig attendees partake of free soil testing and advice from Master Gardeners and local experts on gardening in the St. Louis region.*

## St. Louis Garden Symposium

*Saturday, March 5, 8 a.m. to 4 p.m., $75*

Featuring five nationally recognized horticulture professionals, the 2005 Garden Symposium offers presentations on roses, cutting-edge perennials, the "new American landscape," tropicals in the summer landscape, as well as exhibits by a variety of non-profit organizations providing horticulture service and gardening education. Presented by the Horticulture Co-op of Metro St. Louis, in cooperation with St. Louis Community College, and in association with the St. Louis Master Gardeners. Event takes place at St. Louis Community College–Meramec, 11333 Big Bend Boulevard in Kirkwood, MO. For information, call (314) 487-4995 or visit www.hortco-op.org.

# UPCOMING SHOWS & SALES

## Mid-America Regional Lily Society Sale

*Saturday–Sunday, April 2–3, 9 a.m. to 5 p.m.*
Early-bird shoppers will have the best selection of over 50 varieties of new and up-to-date hardy lily bulbs. Beautiful lily bouquets display the selection. Featured are many new Oriental-Trumpet hybrids, particularly vigorous for St. Louis.

PHOTO BY MATT BENDER

## Greenhouse Plant Sale 2005

*Thursday, April 28, 9 a.m. to 4 p.m.*
Garden members are invited to the MBG greenhouse complex for the yearly plant sale. For sale by cash, check, or MC/Visa are: overruns of annuals grown for Garden grounds; large, unusual stock plants used in propagation; and many perennials, tropicals, ferns, and interesting woody plants, such as the redbud cultivar 'Forest Pansy.' Of special note this year are MBG Signature plants, such as seedlings from the dawn redwood (*Metasequoia glyptostroboides*), the hard-to-find Franklin tree (*Franklinia alatamaha*), and the Missouri Botanical Garden's own golden larch (*Psuedolarix amabilis*). The Flower Sunday floral installation will also be on display (see page 23). All proceeds benefit the Garden.

## St. Louis Herb Society Herb Weekend

*Friday–Sunday, April 29–May 1, 9 a.m. to 5 p.m.*
Third annual sale includes a wide variety of herb plants, books, the society's popular cookbook and seasonings, and food tastings. Society members will be on hand to answer questions. Featured herbs for 2005 include *Thymus serpyllum* 'Citriodorus,' a hardy creeping thyme with lemon-scented leaves and pink flowers, and *Rosmarinus officinalis* 'Herb Cottage,' a hardy rosemary cultivar with lovely blue flowers. Both of these plants will be featured in the herb garden behind Shaw's home.

## Metropolitan St. Louis African Violet Council Show and Sale

*Saturday–Sunday, April 30–May 1, 9 a.m. to 5 p.m.*
Now in its 50th year, this show features the gorgeous *Saintpaulia* 'Persian Prince' grown by a local St. Louisan, winner of the prestigious Best-in-Show prize at the 2004 National African Violet Convention. The sale features hundreds of unusual varieties not easily found, as well as violet handicrafts.

PHOTO BY LISA FRANCIS

# WOODLAND IN SPRING

A scenic woodland filled with dappled sunlight and wildflowers, punctuated by small clearings where shafts of sunshine stream in through the dark canopy, the English Woodland Garden attracts people and wildlife alike, and most especially in the spring when nearly 6,000 bulbs and many species of wildflowers bloom. The garden seems naturally designed for quiet contemplation, featuring plentiful private benches and the red cedar Tom K. Smith gazebo, whence visitors can observe the abundant birds, bunnies, chipmunks, and squirrels that roam the landscape. Established in 1976, the garden was renovated in 1994, almost doubling the size, adding several water features, and making it accessible to wheelchair users.

Typical of deciduous woodland, the English Woodland Garden consists of three "layers": an upper tree canopy; a middle shrub layer, and a lower layer of herbaceous perennial plants and ground covers. The many trees include several Missouri natives, such as pawpaws (*Asimina triloba*), persimmons (*Diospyros virginiana*), and sassafras (*Sassafras albidum*). There are also large specimens of Tuliptrees (*Liriodendron tulipifera*), Sweetgum (*Liquidambar styraciflua)*, and white oak (*Quercus alba*).

Thanks to this hearty stand of mature trees, the English Woodland Garden is primarily a shade garden. Beneath the trees, the midlevel features a nice variety of azaleas, dogwoods, hydrangeas, vibunums, and witchhazels. At ground level, a shifting assortment of traditional and new includes hostas, astilbes, ferns, and other shade-loving plants. Each April, hundreds of woodland flowers including dogwoods, trillium, Virginia bluebells, winter aconite, and azaleas put on a massive display. Don't miss it this spring!

**Tour:** Enjoy a picturesque evening walk through the English Woodland Garden. Learn about the many new plants and features as well as the tried-and-true plants for woodland gardens. Dogwood, redbud, and a wealth of woodland perennials will be discussed. Identification and basic culture will also be covered. Larry Enkoji, Thursday, April 14, 5:30 to 7 p.m. $25 ($20 for members). Enroll today by calling (314) 577-9441.

## Larry Enkoji

PHOTO BY ELIZABETH MCNULTY

Senior horticulturist Larry Enkoji had worked at the Garden for over a decade when the English Woodland Garden position became available in December of 2002. "Since woody plants are my main interest," says this one-time engineering student, "It was a natural fit." Today, Enkoji enjoys the challenge of seeking out new and different species that tolerate shady conditions—and encouraging visitors to look beyond the more common choices for their home gardens. "It also doesn't hurt to be working in the shade during a St. Louis summer!"

## the website... www.mobot.org

**Plant Finder:** Cultural information on over 3,500 plants growing in the Kemper display gardens.

**MBG Collection:** Search the living plant database to find the 14,000 plants growing in the Garden.

**Gardening Help:** Information on over 300 gardening topics, including all Hortline messages.

**Integrated Pest Management:** Diagnostic and control measures for nearly 150 of the most common insect, disease, and environmental problems encountered in Missouri.

**Plants of Merit:** Plants selected by local horticulturalists with outstanding qualities for dependable performance in the region.

**Plants in Bloom:** Updated weekly at the Garden, along with current photos, updated biweekly.

# TRIBUTES

November–December 2004 *For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.*

## in honor of

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Mr. and Mrs. Jacob W. Reby

**Mr. and Mrs. Terry Block**
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Southwestern Illinois Hemorocallis Society

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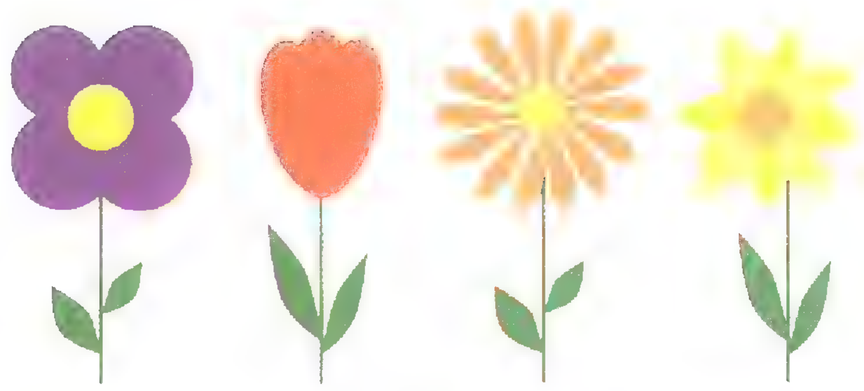
*Winter is almost over. Time to start thinking about your garden! The Garden Gate Shop has a large selection of useful (and colorful) tools and accessories to make your gardening fun and easy.*



## GARDEN GATE SHOP

4344 Shaw Boulevard

(314) 577-5137

Open daily 9 a.m. to 5:30 p.m.

All proceeds benefit the Garden.

## SPECIAL EVENTS

| | |
|---|---|
| **Mar. 5–6** | Members receive 20% off orchid plants, books, and accessories |
| **Mar. 10** | Members' day: 20% off |
| **Mar. 12** | Story Time, 11 a.m. |
| **Mar. 19–20** | Members receive 20% off food |
| **Apr. 5** | Members' day: 20% off |
| **Apr. 9** | Story Time, 11 a.m.<br>Stephanie Cohen will be signing her new book *The Perennial Gardener's Primer,* 1:30 to 3 p.m. |
| **Apr. 23–24** | Members receive 20% off all personal products |
| **Apr. 29–May 1** | St. Louis Herb Society weekend. Members will be here to answer your questions. |

**Trunk Shows, 10 a.m. to 5 p.m.**

| | |
|---|---|
| **Mar. 5–6** | Nancy Helmer jewelry |
| **Mar. 12–13** | Shelly Solomon jewelry |
| **Mar. 18–20** | Silver Cat jewelry |
| **Mar. 25–27** | Del Sol jewelry |
| **Apr. 2–3** | Nancy Helmer jewelry |
| **Apr. 9–10** | "Down to Earth" gourmet gifts |
| **Apr 16–17** | Yael Shomroni pottery<br>Jewelry by Lacey jewelry |
| **Apr. 22–24** | Silver Cat jewelry |
| **Apr. 30–May 1** | Shelly Solomon jewelry |

Food Tasting, every Saturday, noon to 3 p.m.

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*Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from November 15, 2004 through January 15, 2005.*

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Drs. Ksenija Kos and Steven Bassnett

**Peter and Linda Carey**
Peter and Linda Carey

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Mrs. Judy Dickson

**Nicholas and Verena Eversmann**
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Mr. and Mrs. Marc H. Gautier

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Mrs. Noelle Gunter

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Mr. and Mrs. Joe D. Haddon

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Cliff and Cathy Herman

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Nancy L. Hope

**Francis H. Phelan**
Mr. William Phelan, Jr.

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**JoAnn Weber Rivinus**
Ms. JoAnn Rivinus

**Charles E. and Kay F. Sanders**
Mr. and Mrs. Charles Sanders

**Martha Stuart**
Mr. William Stuart

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John and Patty Mendicino

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Charlie and JoAnn Nester

**A. E. Neuman**
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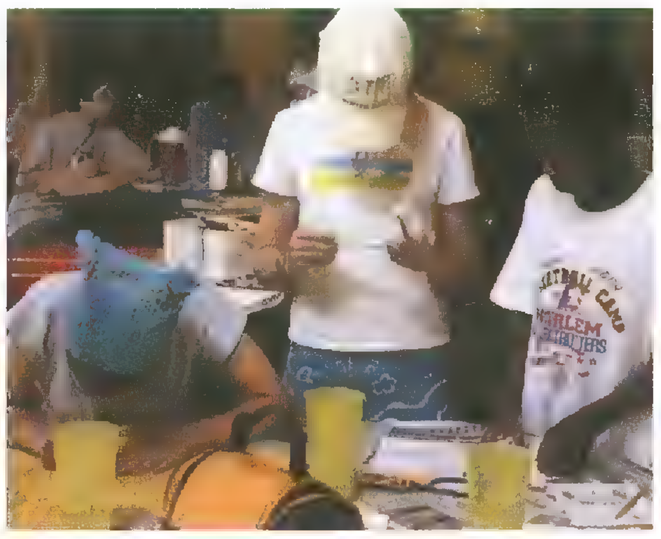
**Eli James Stoops**
Mr. James Cocos

**David Taylor and David Simmons**
Mr. David Simmons
Mr. David Taylor

education and the Garden

2005

# summer programs



## Summertime FUNTIME for pre-K to 12

Learning science is fun when it means hands-on interactive experiments and exploring the natural world. Children from pre-kindergarten to high school can discover the wonders of nature this summer with programs at the Garden, Butterfly House, EarthWays Center, Litzsinger Road Ecology Center, and Shaw Nature Reserve.

Little ones ages 4–6 are invited to explore flowers, fountains, and the dirty world of worms, among many topics. Older grades journey into the real world of forensics, explore Missouri natural wonders, and participate in creek ecology restoration. Parents are saying: "My children said the programs were great! Several weeks later, they are still vigilantly caring for their plants." "Hands down this was my daughter's favorite camp this summer. She's looking forward to other camps at MBG."

Classes fill up quickly, but members are eligible for early enrollment until March 18. If you are a member with children or grandchildren, you should already have received your summer programs catalog in the mail. Download a copy of the course catalog from the Garden's website (www.mobot.org), or call (314) 577-9506 to request one by mail.

## Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Patricia Arnold, Director of Development, at (314) 577-5120 for further information and a complimentary brochure. Visit our informative new website at www.mobot.org. Click on Membership, then Planned Giving Guide.

## Strollerobics

A fun, low-impact workout for all fitness levels, Strollerobics is an eight-week course for parents and their children in strollers. Classes begin the week of March 13 and are offered Monday through Saturday, 9:30 to 10:30 a.m. For the first time, one evening session is offered: Monday at 5:30 p.m. The cost for an eight-class session is $55 per adult ($50 for Garden members). Advance registration is required, and class size is limited to 20 adult participants each, so call (314) 577-9506 to register today.

## Preschool Enrichment

Designed for you and your child or grandchild to explore plants and the natural world, each 90-minute class focuses on a different area of the Garden and includes a walk, hands-on indoor activities, and a snack. Advance registration is required, so please call (314) 577-9506.

*Little Sprouts (ages 2–3):*
Name the flowers, explore secret gardens, plant seeds, and make new friends. Tuesdays, April 19 to May 24, 10 to 11:30 a.m. Cost is $108 ($96 for Garden members).

*Garden Buds (ages 4–5)*
New: now available at Shaw Nature Reserve too! Garden topics include birds, orchids, tropical treats, and more. Sunday afternoons from 1 to 2:30 pm. or Thursday mornings from 10 to 11:30 a.m. Cost is $18 per class ($16 for Garden members).

## Buzz at the Butterfly House

BUZZ is a series of 90-minute classes at the Butterfly House for children ages 8–12 and their parents. Upcoming classes include "Bees: Making the World a Pretty Place" on Saturday, March 12, and "Be an Insect Keeper" on Saturday, May 14. Cost is $13 per class ($9 for Garden members). Advance registration is required, so please call (636) 530-0076 ext. 10.

# EVENTS CALENDAR OF

Missouri Botanical Garden Library
3 1753 00322 3499

PHOTO BY JASON DELANEY

## Easter Brunch at the Garden

*Sunday, March 27*

Seatings at 10 a.m., 11:30 a.m., and 1 p.m.
$24.95 per adult, $11.95 per child age 12 and under.
Reservations required, please call (314) 577-9530.

CATERING ST. LOUIS

*the exclusive caterer of the Missouri Botanical Garden*

**Closings**

- Tower Grove House continues to be closed for renovation.

## March

**Now through Sun., Mar. 13**
Orchid show 2005: "Orchid Island." See page 8. Don't miss the exhibit of orchid photography by Charles Rowden upstairs during the orchid show.

**Now through Sun., Apr. 10**
Vanishing Beauty exhibit. See page 6.

**Thurs., March 10**
**Members' Day: Create a Water Feature in Your Home Landscape. See page 9.

**Sat., March 5**
St. Louis Garden Symposium. See page 17.

**Sat., Mar. 12**
"BUZZ: Making the World a Pretty Place." BH. See page 22.

**Sat.–Sun., Mar. 19–20**
Tour the EarthWays Center. Tours begin at 11 a.m., noon, 1 and 2 p.m. $2 (free for Garden members and children 12 and under). EC.

**Sat., Mar 19**
Gardening Help SpringDig. See page 17.

**Sat., March 26**
**Members' Event: Eggstravaganza. See page 9.

## April

**Fri., Apr. 1**
Arbor Day. See page 8.

**Sat.–Sun., Apr. 2–3**
Mid-America Regional Lily Society sale. See page 17.

**Sun., Apr. 3**
Classic 99's "From the Garden, Live"®: Mulligan Stew (celtic). See page 8.

**Tuesday, April 5**
**Members' Day: How Does Your Garden Grow? See page 9.

**Tues., Apr. 5 & 19**
Gourmet in the Garden: East Meets West. Japanese themed dinner and tour. Reservations required, call (314) 577-5154.

**Sat., Apr. 9**
In honor of National Poetry Month: "Poetry and Gardens." See page 8.

Meet "The Perennial Diva" Stephanie Cohen, advisor to The National Arboretum, as she signs her new book, *The Perennial Gardener's Design Primer.* 1:30 to 3 p.m. GGS.

**Sun., Apr. 10**
Classic 99's "From the Garden, Live"® concert: St. Louis Symphony Orchestra Brass. See page 8.

**Sat., Apr. 16**
Career Day at the Butterfly House. Meet professionals in the careers of horticulture and entomology. Demonstrations in beekeeping, animal husbandry and landscaping. For students age 8–12. BH.

Classic 99's "Young Heroes in Music®" concert. Call (314) 725-0099 for ticket information.

**Sat.–Sun., Apr. 16–17**
Tour the EarthWays Center. Tours begin at 11 a.m., noon, 1 and 2 p.m. $2 (free for Garden members and children 12 and under). EC.

**Sun., Apr. 17**
Classic 99's "From the Garden, Live"® concert: the LeClaire Trio. See page 8.

**Mon., Apr. 18 to Fri., May 13**
"Artistas y Naturleza: Bolivia," a photography exhibition by William Sapp documenting life in Bolivia. RC.

**Fri., Apr. 22**
Eckert's Garden Party to kick off Illinois Appreciation Week. See page 9.

**Sat., Apr. 23 to Sat., Apr. 30**
Illinois Appreciation Week. See page 9.

**Sat., Apr. 23**
Earth Day celebration at the Garden. See page 9.

**Sun., Apr. 24**
Classic 99's "From the Garden, Live"® concert: Ambassadors of Harmony (barbershop). See page 8.

**Thurs., Apr. 28**
Annual Garden Greenhouse Plant Sale. See page 17.

**Fri.–Sun., Apr. 29 to May 1**
St. Louis Herb Society's third annual Herb Weekend. See page 17.

**Sat., Apr. 30**
Tai Chi Day. See page 8.

**Sat.–Sun., Apr. 30–May 1**
Metropolitan St. Louis African Violet Council show and sale. See page 17.

**Sun., May 1**
Classic 99's "From the Garden, Live"® concert: David Halen and Mark Gordon (violin and English horn). See page 8.

PHOTO BY JACK JENNINGS

## Flower Sunday at Christ Church Cathedral

*Sunday, April 24.* Garden founder Henry Shaw, who was a member of the church, stipulated in his will that the Garden provide hundreds of flowers to decorate the cathedral annually on Flower Sunday. The presiding bishop of the Episcopal Church USA, Most Rev. Frank Griswold, will be the guest preacher for services at 8, 9, and 11:15 a.m. at Christ Church Cathedral, 1210 Locust Street.

## the key

| | | | |
|---|---|---|---|
| CA = Cohen Amphitheater | GGS = Garden Gate Shop | MC = Monsanto Center | SP = Spink Pavilion |
| CL = Climatron | JG = Japanese Garden | RC = Ridgway Center | ** denotes a members-only event. |
| EH = EarthWays Home | KC = Kemper Center | SNR = Shaw Nature Reserve | $ denotes an additional fee. |

*All events are free with admission or membership unless otherwise noted.*

100% new-tree-free!

See page 3 for details.

# WHERE IS IT?

Visitors often inquire about this mysterious cottage tucked away behind a bamboo screen. Designed by George I. Barnett, and built in 1895, the Cleveland Avenue Gatehouse was both a caretaker's residence and an overflow entrance when the main gate at Flora Avenue became too crowded. Over the years, the house has been used as a residence for the head gardener, the director, and the Garden rosarian. It is currently vacant.

| | |
|---|---|
| Communications: | (314) 577-0254 |
| Corporate Partners: | (314) 577-9513 |
| Education—children | (314) 577-5140 |
| —adults | (314) 577-9441 |
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| Events hotline | (314) 577-9400 |
| —toll-free | 1-800 642-8842 |
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| Tourism | (314) 577-0275 |
| TDD (hearing impaired) | (314) 577-9430 |
| Tribute Gifts | (314) 577-5118 |
| Volunteer Services | (314) 577-5187 |

## Contact information

Missouri Botanical Garden (314) 577-5100
4344 Shaw Boulevard, St. Louis, MO 63110

Butterfly House (636) 530-0076
15193 Olive Blvd., Faust Park, Chesterfield, MO 63017

EarthWays Center (314) 577-0220
3617 Grandel Square, St. Louis, MO 63108

Little Shop Around the Corner (314) 577-0891
4474 Castleman Drive, St. Louis, MO 63110

Shaw Nature Reserve (636) 451-3512
Hwy. 100 & I–44, Gray Summit, MO 63039

**Hours**
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Parking is free.

**General Admission***
Adults age 13–64....$7 (seniors 65+.....$5)
Members and children 12 and under.....free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings from 9 a.m. to noon (unless special event pricing applies).

** Special events may require an additional fee.*

**Editor:** Elizabeth McNulty
**Designer:** Ellen Flesch
**Cover photo:** Josh Monken, Darwin hybrid perennial tulips 'Banja Luka' (red/yellow) and 'Burning Heart' (cream/red)
**Back cover photo:** Jack Jennings
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MISSOURI BOTANICAL GARDEN

# Bulletin

May/June 2005 Vol. 93, No. 3

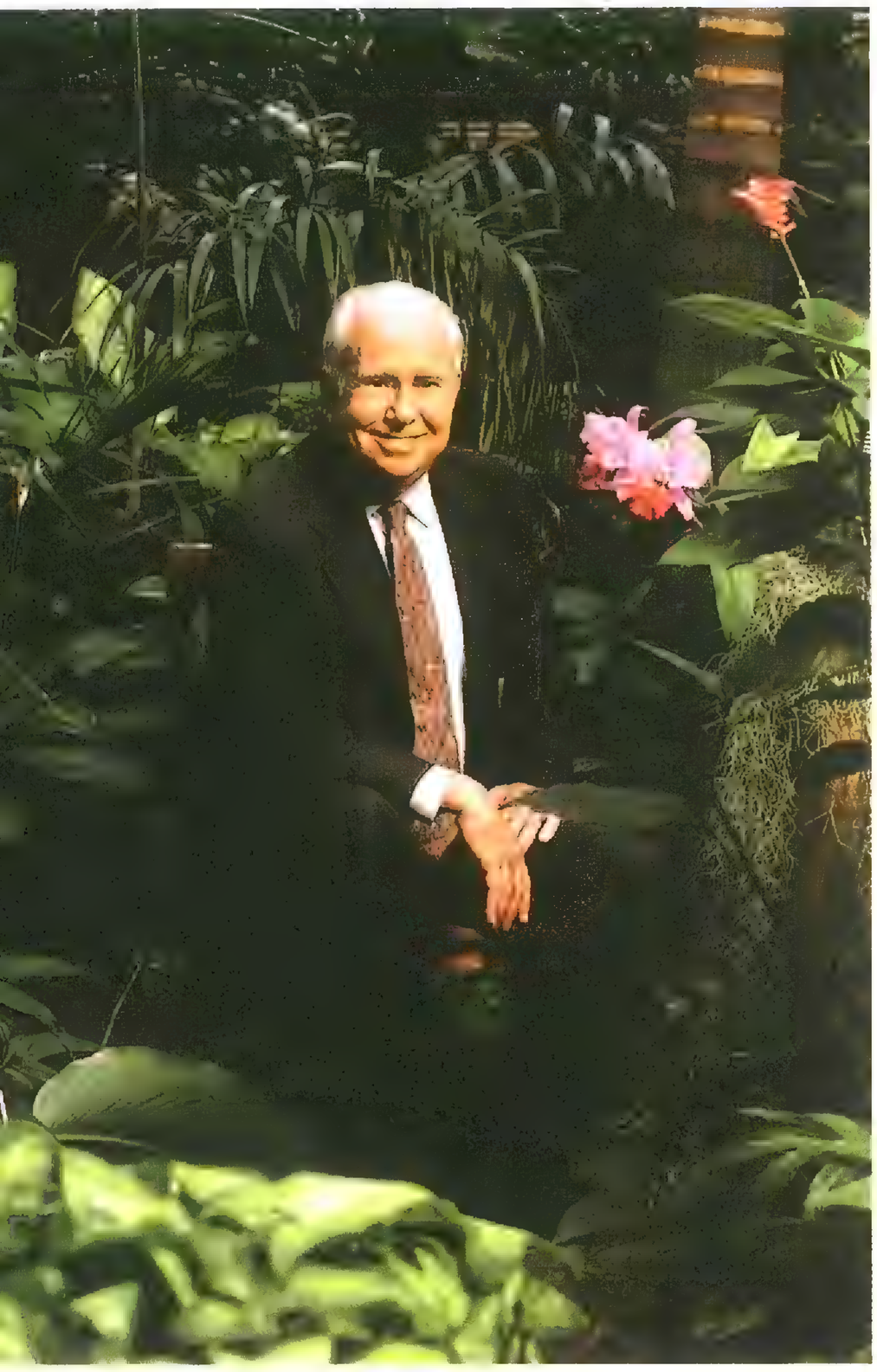

PHOTO BY PETER HOWARD

*To discover and share knowledge*
*about plants and their environment,*
*in order to preserve and enrich life.*

*mission of the Missouri Botanical Garden*

# from the director...

I am pleased to announce that Scott C. Schnuck, president and COO of Schnuck Markets, has been re-elected president of the Garden's board of trustees. Stephen F. Brauer, former Ambassador to Belgium and president of Hunter Engineering Company, was re-elected first vice-president. We also welcome three new trustees this spring. Cheryl Morley, Linda Ward O'Hara, and Rex Sinquefield are profiled on page 7.

On May 4, at our annual Henry Shaw Dinner, the Garden will present our highest award, the Henry Shaw Medal, to the National Geographic Society. One of the world's largest nonprofit scientific organizations, the NGS is an international leader in conservation and sustainable development. Through its grants and media outlets, the NGS helps the people of the United States and of the world to understand our planet and its inhabitants better—a crucial activity, if we are "to preserve and enrich life."

In this issue of the *Bulletin*, readers receive an update on the Taylor Fund for Ecological Research. Thanks to the generosity of the Taylor Family, just two years after this "greatest gift," Garden researchers are reporting on field trips, new species of orchids and philodendrons, undiscovered forests, and successful collaborations with indigenous people to safeguard botanical resources.

Plants provide oxygen, shelter, clothing, food, and medicine, but barely one in six have been identified. As habitat destruction continues, we literally do not know what we are losing. The Stewards of the Earth campaign seeks to raise funds to expand and accelerate the pace of research. I know that we can count on the Garden's dedicated supporters, donors, members, and friends to help us achieve historic discoveries for generations to come.

Peter H. Raven

Peter H. Raven, *Director*

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## editor's note...

This is a spring for the history books, one of the most beautiful on record, following our mild winter. In April, members of the American Daffodil Society were so impressed by the Garden's spring *Narcissus* display that they held their annual convention here. In preparation for this prestigious visit, Garden horticulturists and volunteers planted tens of thousands of bulbs. There are over 500 unique varieties of daffodils alone and many are still in bloom, so if you haven't seen them yet, make haste.

The spectacular horticultural collections of the Missouri Botanical Garden inspire visits by many national plant societies. Also in the line-up this year is the American Iris Society, visiting in May. While the Garden always presents an excellent show, otherwise these societies wouldn't be in a hurry to visit, you can be sure that the Goodman Iris Garden, and the irises throughout the Garden, will be in tip-top shape this spring.

It's one of the most beautiful times of the year to visit and also one of the most eventful, with Rose Evening and Chinese Culture Days and the Whitaker Music Festival. It's busy for home gardeners too, who might want to compare their progress with the Kemper Center's display gardens. And while you're at it, recycle that horticultural plastic you've been stacking up all year (see page 16). Whether it's Tea & Butterfly Kisses at the Butterfly House, Camp EarthWays, or the Spring Wildflower Sale at the Shaw Nature Reserve, you won't want to miss spring-into-summer at the Garden's family of attractions.


Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

# Stewards of the Earth

the Campaign for the Missouri Botanical Garden

*Remnants of Tucumano-Boliviano montane forest near Bella Vista.*

## Update: Taylor Fund for Ecological Research

In September 2002, as part of the *Stewards of the Earth* campaign, Jack C. Taylor, founder of Enterprise Rent-A-Car, gave $30 million to the Missouri Botanical Garden in the single largest gift ever given to a botanical institution. The Taylor Fund for Ecological Research supports projects in highly threatened, unexplored regions of the world that are exceptionally rich in biodiversity.

Plants provide many useful products, such as food, clothing, medicine, shelter, and other potential applications. These products are derived from less than 1 percent of all tropical plants; the other 99 percent have not been screened for potentially useful properties. And yet, perhaps as many as 83% of the plants in these biodiverse "hot spots" are at risk of extinction. The Missouri Botanical Garden is a preeminent institution in the study of tropical plants, and as such, is uniquely qualified to carry out an extensive investigation of the plants of South America and in tropical regions around the world.

With the generous support of the Taylor Fund, MBG has continued its intensive, long-term programs to:

- gather information about regions of extraordinary biological diversity throughout the world and disseminate these findings widely
- build the capacity of institutions to manage and apply this knowledge to conserve the world's botanical wealth
- and train the next generation of botanists and conservationists in countries from Latin America to Africa and Asia.

PHOTO BY TRENT FOLTZ

### Join us!

"This drive provides a unique opportunity to participate in the future of the Garden," says Director of Development Patricia Arnold. For more information on how you can help, please contact the Development Office at (314) 577-5120.

## Explorations

The tropical Andean countries of Bolivia, Ecuador, and Peru contain a significant portion of Earth's biodiversity, yet many regions within these countries have not been explored, and knowledge of their extraordinary plant diversity remains incomplete. With support from the Taylor Fund for Ecological Research, the Garden's researchers are exploring and gathering information about these exceptional biological resources. The Garden's projects foster the professional development of Latin American scientists and strengthen each country's scientific infrastructure, building the capacity that is indispensable to ensuring the long-term success of conservation in these Andean countries.

### *Bolivia*

Garden researchers and colleagues are focusing on two areas. High rainfall, variable topography, complex geology, and past climate changes in the Madidi region have led to the development of remarkably high levels of species richness; however, the area is almost entirely unknown. During explorations in 2004, Garden researchers discovered a previously unknown Tucumano-Boliviano montane forest zone, considered Bolivia's most endangered ecosystem, near the Tariquía National Reserve.

### *Ecuador*

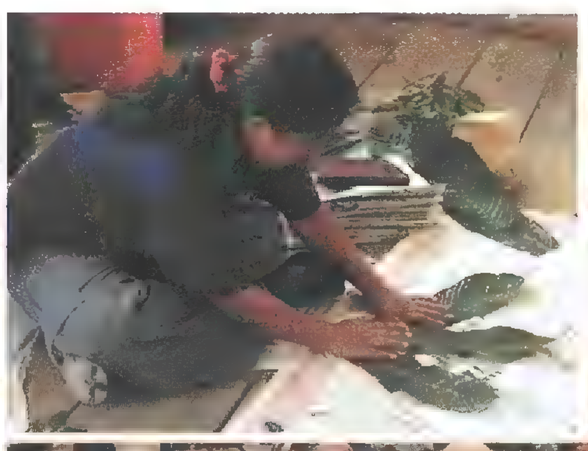
In Ecuador, researchers are focusing on two Andean areas of high biodiversity. The Chocó-Manabí corridor in northwestern Ecuador is a narrow strip of land along the Pacific coast, adjacent to the western slope of the Andes, with exceptional species richness. For two years, Garden researchers have collaborated with the National Herbarium of Ecuador and the Awá Federation to train indigenous people in conservation biology.

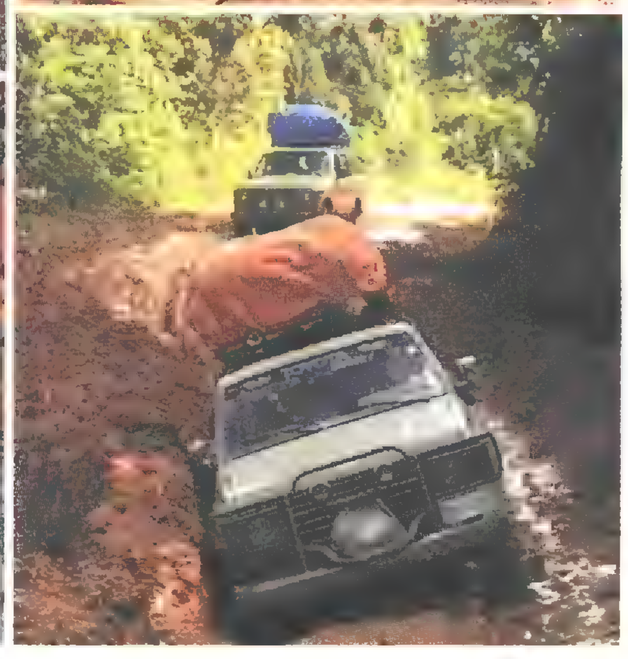
The Cordillera del Cóndor is an isolated mountain range, parallel to the Andes, and forms part of the international border between Ecuador and Peru. The region has perhaps the "richest flora of any similar-sized area in the New World," according to one estimate, including many plants that occur nowhere else on Earth. With the backing of the Taylor Fund, Garden researchers have completed eight expeditions into this region in the last two years. Dr. Thomas Croat, a specialist in the Araceae family, which includes the well-known tropical houseplants *Anthurium* and *Philodendron*, collected over 1,000 plants in the region. He estimates that Ecuador has about 1,500 species of Araceae, an extraordinarily high number since only 404 had been previously cataloged. The Lauraceae family, which includes cinnamon and avocado, and the Orchidaceae family are also well represented. The Garden is working with local agencies and the Shuar people of this region in safeguarding their cultural resources.

### *Peru*

The Valle del Vilcanota-Urubamba region is situated on the western slope of the Andes in southern Peru. The Oxapampa region consists of three adjoining protected areas located in central Peru. Both areas feature tremendously varied vegetation: from herbaceous to various kinds of cloud and mountain forests in the middle elevations to rain forest in the lowland slopes. Enabled by the Taylor Fund for Ecological Research, the Garden's researchers conducted sometimes grueling fieldwork in both regions in 2004, resulting in the discovery of several species new to science, including two orchids. Capacity building continued with student training and school programs, including community gardens among the Yanesha people of central Peru.

*Captions for below, clockwise from upper left - 1.) Students learn how to climb trees to collect botanical samples. 2.) Student making a voucher specimen of medicinal plants collected in Ecuador. 3.) Many virgin forests in Bolivia are being cleared for cultivation of crops. 4.) Yanesha school children planting sustainable community vegetable gardens. 5.) During the rainy season, researchers struggle to reach Bolivia's remote Madidi National Park. 6.) Market in Mairana. 7.) Species adapted to extreme conditions near high elevations in central Peru.*





# NEWS

PHOTO BY MATT BENDER

## Sassafras

On March 25, the Garden's café reopened its doors with an environmentally friendly makeover and a new name, Sassafras, a tribute to the grove on the property when founder Henry Shaw built his country home 150 years ago. Guests will enjoy a new menu, warm earth-toned décor, comfortable seating, and friendly service.

Many features of the new café design are environmentally friendly. Tabletops and divider walls are surfaced in a material made of recycled paper and agricultural alfalfa. Walls are accented in cork and sustainably harvested cherry. A large central skylight brightens the area, and pendant table lamps use energy-efficient fluorescent bulbs. Artwork on display is from the Missouri Botanical Garden's rare book collection.

The Sassafras spring menu offers an appealing variety of sandwiches, soups, and salads, as well as a "pick two" combo and children's menu. Hours are 9 a.m. to 5 p.m. with lunch served from 11 a.m. to 3 p.m.

## Corporate Partners

The Corporate Partners program strengthens the relationship between the Garden and the corporate community in the greater St. Louis region. Become a Corporate Partner today! For information, call Katherine Kornfeld at (314) 577-9513.

Thank you to our new and renewing corporate partner members (June 1 – April 10, 2005)

**Shareholder Level ($10,000 to $24,999)**
Bryan Cave LLP
CBIZ Business Solutions of St. Louis, Inc.
The May Department Stores Company and its Famous-Barr, Lord & Taylor and David's Bridal Divisions

**Underwriter Level ($5,000 to $9,999)**
BSI Constructors Inc.
McBride & Son Homes, Inc.
Northern Trust Bank
Vantage Credit Union

**Supporter Level ($1,000 to $4,999)**
Fabick Companies
General Motors Corporation
Hager Companies
National City Corporation
Tyco Healthcare/Mallinckrodt

## 2004 Annual Report

The Missouri Botanical Garden 2004 annual report is now available. To request a copy, call (314) 577-5120.

## Garden Gram

Garden members already receive the *Bulletin* as part of their benefits, but now you can receive an even more up-to-the-minute report via e-mail: the members' Garden Gram. E-mailed monthly, this colorful missive contains links to interesting content on the Garden's new website, insider information about news and events at the Garden, as well as special offers in the Garden Gate Shop, Sassafras, and more. To receive your copy of the Garden Gram, please call (314) 577-5108.

## New MBG License Plate

Show your love for the Garden on your car: be among the first owners of the new Missouri Botanical Garden license plate! Just in time for spring, the new design features a dogwood flower (the state tree of Missouri) in perky pink and green.

To obtain a plate, drivers must donate $35 to the Missouri Botanical Garden. You will receive an "Emblem Use Authorization Statement" and an application for a personalized plate, which you can take to your license branch.

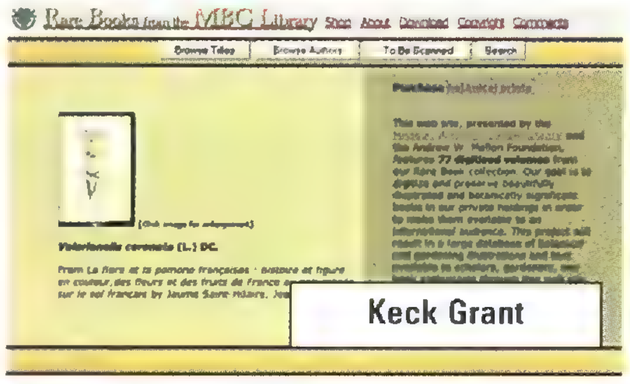
As a specialty plate, an extra $15 fee will apply to your registration. If you already have an MBG license plate and desire the new model, you can trade it in by completing a new personalized plate application.

Please note that it is for an MBG license plate, and mail a check for $35 (one year) or $70 (two years) to Missouri Botanical Garden License Plate • P.O. Box 299, St. Louis, MO 63166. Or to make your contribution to the Garden by MasterCard or Visa, call (314) 577-0805.

Vintner's Gala

National Botanic Gardens of Scotland

Orthwein Day




PHOTOS BY JAMESLY LANE, EMILY SNIDER, AND COURTESY NATIONAL BOTANIC GARDENS OF SCOTLAND

## Vintners' Gala Thank-You

On March 5, 160 friends of the Garden enjoyed an intimate evening of gourmet food and fine wines. Thank you to everyone who made the Vintners' Gala a wonderful success, especially co-chairs Mr. and Mrs. Julian L. Carr, Dr. and Mrs. Leonard Guarraia, and Drs. Peter and Patricia Raven.

Special thanks to Mr. Tony Bommarito of A. Bommarito Wines, and to our sponsors: Bryan Cave LLP, Mr. and Mrs. Stephen Brauer, June and Fred Kummer, The May Department Stores Company, McBride & Son Homes, Inc., Northern Trust Bank, and Mr. and Mrs. Andrew C. Taylor.

## Visit Scottish Gardens—free!

As a member of the American Horticultural Society, the Missouri Botanical Garden offers its members reciprocal admission to over 175 botanical gardens and arboreta in the U.S. and Canada. (View the complete list at www.ahs.org/events/reciprocal_events.htm).

In March, the Garden struck the first international reciprocal agreement with the National Botanic Gardens of Scotland. Established in Edinburgh in 1670, the NBGS today includes four of the oldest and most beautiful gardens in Scotland (www.rbge.ac.uk), all of which now offer free admission to MBG members.

## Bill Orthwein Day

On February 12, the Garden celebrated Bill Orthwein Day, as proclaimed by the City of St. Louis. A distinguished trustee for over three decades, Bill Orthwein was presented with the resolution at a luncheon. Visitors received free admission to the Orchid Show in the Orthwein Floral Display Hall and were invited to join in the celebration.

## Keck Foundation Grant

With 2.5 million records, the Missouri Botanical Garden's virtual herbarium, Tropicos™, is the largest online botanical database in the world. And it's about to get bigger and even more robust. In December, the W. M. Keck Foundation awarded the Garden a three-year grant to build an online reference system of scientific literature supporting Tropicos. More than 100,000 pages of botanical literature from the Garden's library will be scanned, indexed, and linked to Tropicos entries. Upon completion, researchers will have direct online access to related source material for a given plant—a boon for scientists working in remote locations or without access to a research library.

# New Trustees

On February 23, the Garden's board of trustees welcomed three new members.

## Cheryl Morley

Senior Vice-President for Corporate Strategy at Monsanto, Morley also serves on the board of OASIS and several other non-profit organizations. In 2003, the *St. Louis Business Journal* recognized Morley as one of the city's Most Influential Business Women.

## Linda Ward O'Hara

Former Missouri Assistant Attorney General and clerk for the Eighth Circuit Court of Appeals, O'Hara has served on the board of the Visiting Nurses Association, Good Shepherd School for Children, and the Development Board of Children's Hospital.

## Rex Sinquefield

Co-Chairman of Dimensional Fund Advisors Inc., a firm he co-founded in Santa Monica, CA, Sinquefield also serves as a director of St. Vincent Orphan's Home in St. Louis, on the investment committee of the Archdiocese of St. Louis, and on the Saint Louis University, De Paul University, and the Saint Louis Art Museum boards of trustees.

# EVENTS

PHOTO BY DIANE WILSON

*Rose Evening*

## Honor Mom with a Membership to the Garden

Let the Garden help you make Mother's Day even more special this year with a free gift for Mom. Purchase a gift membership anytime before May 8 and receive a set of beautiful Tower Grove House notecards. Stop by the Membership Services Desk, call (314) 577-5118, or visit us on the web at www.mobot.org.

# FOR MEMBERS ONLY...

### Henry Shaw Dinner

*Wednesday, May 4*

The Garden celebrates the annual Henry Shaw Dinner each May, with fine food, wine, and socializing for upper level members (Henry Shaw Associates and above). This year, the Henry Shaw Medal will be presented to the National Geographic Society. To receive your invitation, join the Henry Shaw Associates by calling (314) 577-9495.

### Spring Luncheon

*Friday, May 6, 11:45 a.m. Spink Pavilion*

Enjoy a spring luncheon and get gardening advice from one of the foremost local authorities when the Kemper Center's June Hutson presents "The Season at Hand." Ride the tram and shop in the Garden Gate Shop or the Little Shop with a special 20% off coupon. Tickets are $40 per person, and seating is limited. For more information or to reserve your place, please call (314) 577-9500.

### Spring Wildflower Presale

*Friday, May 6, 4 to 7:30 p.m.*

Garden members enjoy first selection at the Shaw Nature Reserve Spring Wildflower Sale during the members-only pre-sale.
See page 10 for details.

### Rose Evening

*Thursday, May 26, 5:30 to 8:30 p.m., Garden grounds*

Stroll through the beautiful rose gardens and gather growing tips from MBG experts and the Rose Society of Greater St. Louis. There will be music, attendance prizes, cash bar, and a long-stemmed rose to take home. Buffet dinner: $24 per person. Reservations required; please call (314) 577-9570.

### Members' Musical Evening

*Friday, June 3, 5:30 to 8:30 p.m., Spoehrer Plaza*

Bring a picnic supper, your lawn chairs and blankets, and enjoy an evening of big band music under the stars. Dance the night away to the swinging sounds of the Gateway City Big Band. The music begins at 7 p.m.; limited concert seating is available on a first come-first served basis. Cash bar.

### Black Rep at the Garden

*Saturday, June 5, 1 and 3 p.m.*

Don't miss a free performance by St. Louis Black Repertory at the Garden. Each performance includes five 10-minute excerpts, one from each play in the Black Rep's 2005 season. All ticket holders will receive a 10 percent discount in the Garden Gate Shop on that day, and Garden members who attend this showcase will receive a 10 percent discount on a season subscription purchase. Seating is first-come, first-served. Call (314) 534-3810 for details.

### St. Louis Garden Tour 2005

*Sunday, June 12, 10 a.m. to 4:30 p.m., St. Louis area*

Members are invited to tour nine of the loveliest private gardens in St. Louis and one spectacular community garden in the MBG-sponsored St. Louis Garden Tour. Self tour is $50 per person; tickets for tour by bus with box lunch are $75. Watch the mail for your invitation.
For more information or to make reservations, please call (314) 577-9570.

### Members' Day: The Temperate Fern Garden

*Thursday, June 23, 11 a.m., Shoenberg Auditorium*

Winner of numerous Royal Horticultural Society awards for his work with hardy ferns, noted British gardening author Martin Rickard (*The Pathfinder's Guide to Garden Ferns*) speaks on the beauty, joy, and ease of ferns for any garden.

# MAY

PHOTO BY JOSH MONKEN

*Chinese Culture Days*
*Saturday–Sunday, May 21–22, 10 a.m. to 5 p.m.*
*$10 for adults 13-64 ($7 seniors 65+),*
*$3 for members and children 12 and under*

## Chinese Culture Days 2005

Celebrate the year of the rooster at Chinese Culture Days with the return of the Shanghai Acrobatic Troupe. Don't miss the Grand Parade featuring a 70-foot long dragon, lion dancers, and costumes and music from all over China. Children of all ages will enjoy the Dragon Arts Puppet Theater and traditional Chinese games. The combined Chinese Language Schools of St. Louis present the stage drama "The Legend of the Silk Road." See demonstrations of t'ai chi, martial arts, calligraphy, and traditional painting. Enjoy guided tours and tea-tastings in the Grigg Nanjing Friendship Garden, as well as authentic Chinese food from various local vendors. Download the program of events from the Garden's website at www.mobot.org.

Established with the opening of the Grigg Nanjing Friendship Garden in 1996, Chinese Culture Days celebrates the long and distinguished ties between China and the Missouri Botanical Garden. With some 30,000 species of plants, China holds about one-eighth of the world's known plants and twice as many as the continental United States. Many of our most familiar ornamentals originated in China, including azaleas and rhododendrons, camellias, gardenias, hibiscus, peonies, chrysanthemums, and ginkgos. The flora is renowned for its medicinal properties as well. Through the *Flora of China* project, a 50-volume joint publication, MBG researchers are working to identify and assist in conservation of this unique plant life.

# JUNE

## Whitaker Music Festival 2005

With nine Wednesday-evening concerts in June and July, the 11th annual Whitaker Music Festival features the best of local jazz, blues, bluegrass, pop, and rock-n-roll. Pack a picnic and your lawn chairs, and spend the evening listening to live music under the stars.

Admission to the Whitaker Music Festival is free after 5 p.m., thanks to the generous support of the Whitaker Foundation, which provides funding to the arts and parks in St. Louis to promote common heritage, while celebrating diversity and encouraging the vitality of the community. In case of rain, check the Garden's website (www.mobot.org) for cancellation information.

**Regulars, please note:** because of construction of the Doris I. Schnuck Children's Garden—A Missouri Adventure, this year's concert venue is the Linnean Lawn and concerts begin at 7 p.m.

### June

1 James Matthews Trio, virtuoso jazz piano stylist
8 Mardra and Reggie Thomas, a tribute to Billie Holiday
15 Neal Caine Quartet, jazz "from the bottom up"
22 Corey Christiansen Quartet, expert jazz guitarist
29 Wil Maring and Shady Mix, unique blend of bluegrass, folk, and western

### July

6 Augusta Bottoms Consort, acoustic Missouri music
13 Sandy Weltman, harmonica master
20 Fairchild, one of St. Louis' best-loved hometown bands
27 Billy Peek, legendary St. Louis rock-and-roller

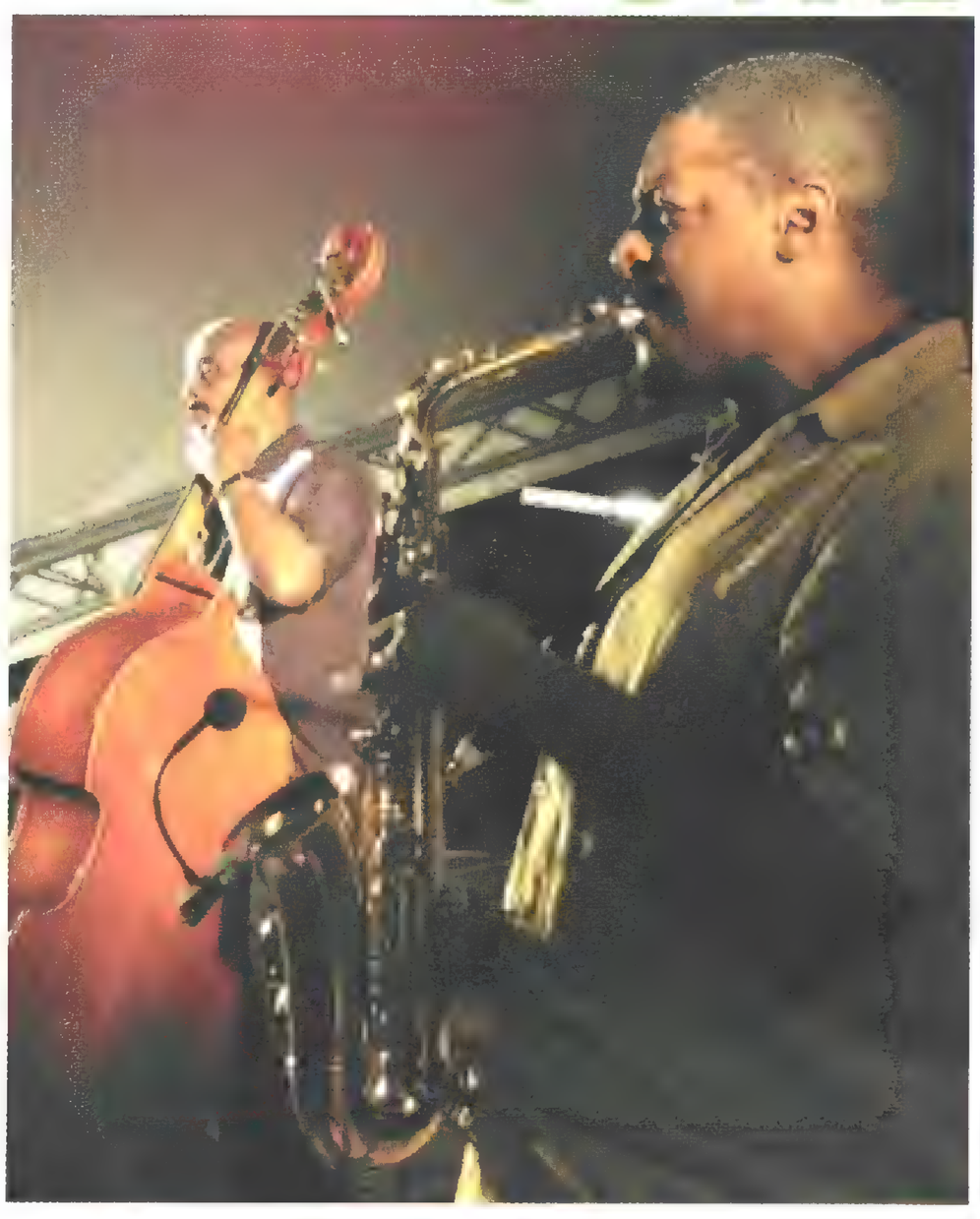


PHOTO BY JOSH MONKEN

*Whitaker Music Festival*
*Wednesdays, June 1 through July 27; 7 p.m.*
*Linnean House lawn*

# GARDEN AT LARGE

## SHAW NATURE RESERVE

*Shaw Nature Reserve*
*Hwy. 100 & 44 (exit 253)*
*Gray Summit, MO 63039*
*(636) 451-3512*
*www.shawnature.org*

PHOTO COURTESY SHAW NATURE RESERVE

*Shaw Nature Reserve's annual wildflower sale features hundreds of plants.*

### Spring Wildflower Sale

*Saturday, May 7, 9 a.m. to 4 p.m.*

Choose from the widest selection of native plants in the St. Louis region at the Shaw Nature Reserve's annual Spring Wildflower Sale. Plants are nursery propagated and include many of the showiest and hardiest native plants for sun or shade: butterfly milkweed, rose turtlehead, pale purple coneflower, dwarf crested iris, cardinal flower, compass plant, wild phlox, maidenhair fern, and short-leaf pine, to name a few. Attract birds and butterflies to your backyard. Call (636) 451-3512 for more information.

### Members-Only Pre-Sale

*Friday, May 6, 4 p.m. to 7:30 p.m. (sunset is 8:04 on this date)*

### Women in Nature

*Friday-Sunday, June 10–12*

The Shaw Nature Reserve and Missouri Department of Conservation host a women-only weekend retreat featuring over 25 activities. Choose from Archery Basics, Scrapbooking, Dutch Oven Cooking, Wildflower Identification, Fly Fishing, and more. After dinner, take a night hike, gaze at the stars, or relax around the cozy campfire. Check in for the retreat begins at 3 p.m. on Friday, June 10; activities are held from 6 p.m. that evening through Sunday, June 12 at noon. Cost of the weekend is $160 per person ($100 for Garden members). Advance registration is required, so call (636) 451-3512, ext. 6075 for more information.

## EARTHWAYS CENTER

3617 Grandel Square
St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org

*EarthWays Center is a division of the Garden that teaches people of all ages about practical ways to conserve natural resources, reduce waste and prevent pollution – at home, at school, and in the workplace.*

### Camp EarthWays Grows "Green Power" for Kids

*Monday–Friday, July 11–15, 9 a.m. to noon*

While human beings of all ages use—and often waste—water, energy, and other natural resources, we all have the power to change our habits and live more lightly on the Earth. Many children are surprised to learn how much their actions can make a difference.

PHOTO BY JEAN PONZI

*Paper pinwheels teach young EarthWays Center visitors how electricity can be produced from wind.*

This summer, kids entering grades 4–6 can have fun building their personal "Green Power," as they learn about the environment at Camp EarthWays. Campers will experiment with solar cooking, explore composting with worms, and make 100% recycled paper crafts. Clean air activities, energy games, and more will take place all around EarthWays Center, the Garden's environmental education center in a hundred-year-old house.

Camp EarthWays is new this year! One week of morning sessions will run from 9 a.m. to noon, July 11–15, including outdoor and inside activities and a healthy snack. Cost is $125 per child ($110 for Garden members). Class size is limited to 15 students, so call (314) 577-0220 to register.

# The Butterfly Page

Butterfly House
15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

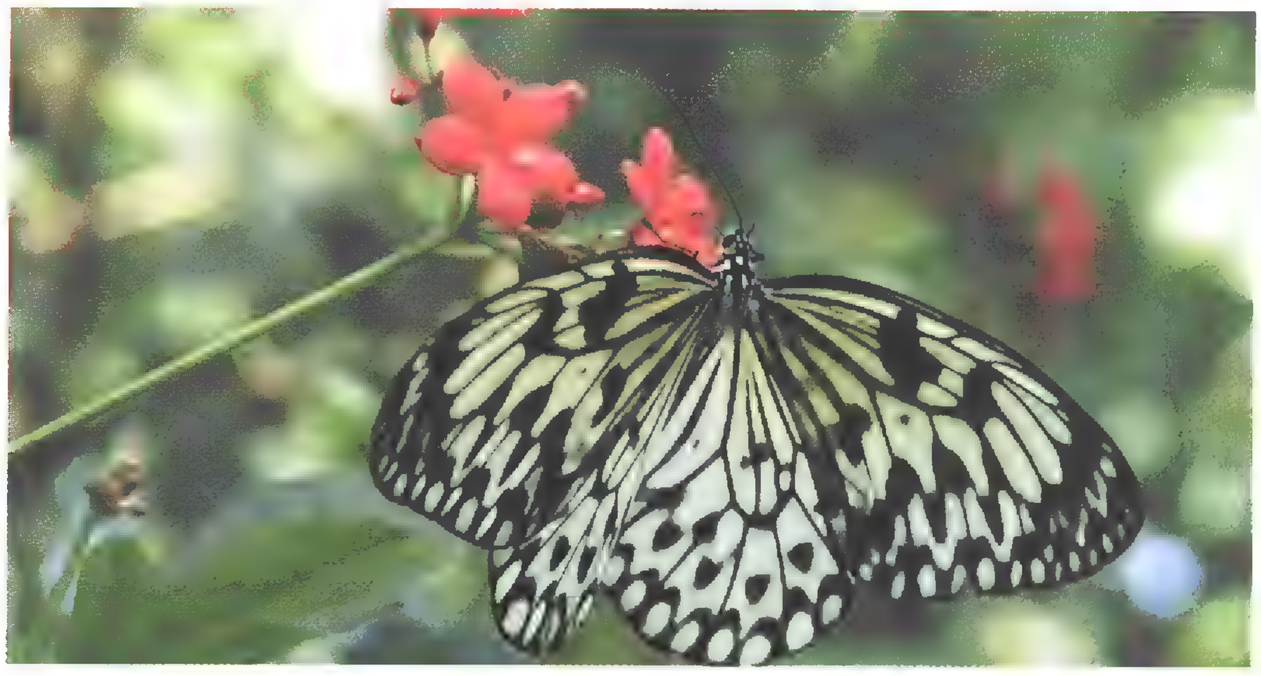


PHOTO BY JOSH MONKEN

## Events

### Mother's Day Brunch at the Butterfly House

*Sunday, May 8, 10 a.m. to 3 p.m.*

A bountiful buffet by Russo's Gourmet will be served under the pavilion on the Emerson Lakeside Terrace overlooking the ponds and gardens of the Native Habitat. Includes free admission to the Butterfly House. Advance reservations and prepayment are required. Adults $32.95; children (11 and under) $16.95, under 3–free. Call (636) 733-2339 for reservations.

### BUZZ—Be an Insect Keeper

*Saturday, May 14, 2 to 3:30 p.m.*

Ever wonder how we take care of all our animals? Kids: bring a parent (required) and learn how to care for and handle common invertebrates, and even help feed the butterflies. Class limited to 20. $13 per child, ages 8–12 ($9 for children of Garden members); parents are free. Registration required, so call (636) 530-0076 ext. 10.

### Mommy and Me Tea

*Sundays, May 15, 22, June 12, or 26*

*1 to 2 p.m. or 2:30 to 3:30 p.m.*

Butterfly kisses are being sent your way, inviting you and your child to visit Sunday. The Lakeside Pavilion will be all "dolled" up with teapots and dessert and little teacups. Do a craft with your special girl, see the butterflies, and receive a goodie bag too! Dressy attire is encouraged. $15 per person. Reservations required, so call (636) 733-2339.

### Yoga on the Terrace

*Wednesdays, May 18 to August 10, 7:30 to 8:30 a.m. or Fridays, May 20 to August 19, 7:30 to 8:30 a.m.*

Join us for yoga by the tranquil outdoor gardens of the Butterfly House. Let your spirit soar as you tone muscles, increase flexibility, and energize your body and mind. Instruction by UrbanBreath. Three month sessions, $144 for 12 classes. Advance registration and prepayment required. Call (636) 733-2339.

### Father's Day Splash and Spray

*Sunday, June 19, 11 a.m. to 2 p.m.*

Arrive dressed to get wet and challenge dad to see who can stay the driest. Games include: "Shaving Cream Shoot Off," "There's a Hole in my Bucket," and "Knights in Trash Can Armor." Activities and crafts are free with regular admission. Food available at a nominal fee. Call (636) 530-0076 ext. 10 for information.

### Bed Bugs

*Friday, June 24, 6 p.m. to Saturday, June 25, 8:30 a.m.*

Explore the nocturnal crawlings at the Butterfly House. Observe as butterflies go to roost at night. Listen to the crickets sing for a mate. See what comes to visit us at our blacklight location. Bring a sleeping bag, pillow, and a parent (required). Includes a pizza dinner and a continental breakfast. $45 per child ages 8–12 ($35 for children of Garden members); parents are free. Reservations are required, so call (636) 530-0076 ext. 10 for reservations.

## Tributes

January–February 2005

*For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-0297.*

### in honor of

**Maxine Bromberg**
Wilma Messing

### in memory of

**Mrs. Jane Kelly**
Ms. Helen VanDerhyden

**Madison Elizabeth Lally**
Karen Klaus

**Mike Mamroth**
Jules and Shirley Snitzer

**Dr. Roger Parrott**
Jules and Shirley Snitzer

**Joe Mary Sinclair**
Mrs. Marcella Bakker
Mr. George Bakker

## Pavers

January–February 2005

*Pavers are a great way to recognize graduations, weddings, engagements, Mother's Day, Father's Day, birthdays, as well as memorials. For information call Juanita Jahn at (314) 577-0297.*

**Lorraine Grigaitis**
Ms. Patricia Lorr

**Dorothy L. Grizio**
Douglas and Suzanne Adams
Sal and Louis

**Madison Lally**
The Families of Pine Ridge Acres

**Madison E. Lally**
Wendy Erikson and your friends at "Show Me St. Louis"

**Tom Tipple**
Mr. and Mrs. George Dubé
Mrs. Lynn Munro
Mr. and Mrs. John Sabo
Mr. and Mrs. JB Stultz
Mr. and Mrs. Paul Zimmerman
Mr. and Mrs. Throck Osborn
Mr. and Mrs. Bill Maender
Mr. Dale Role
Mr. and Mrs. Syl Bierman
Mr. and Mrs. Jim Daar
Mr. and Mrs. Lou Houlle

# Sweet Summer Sunshine

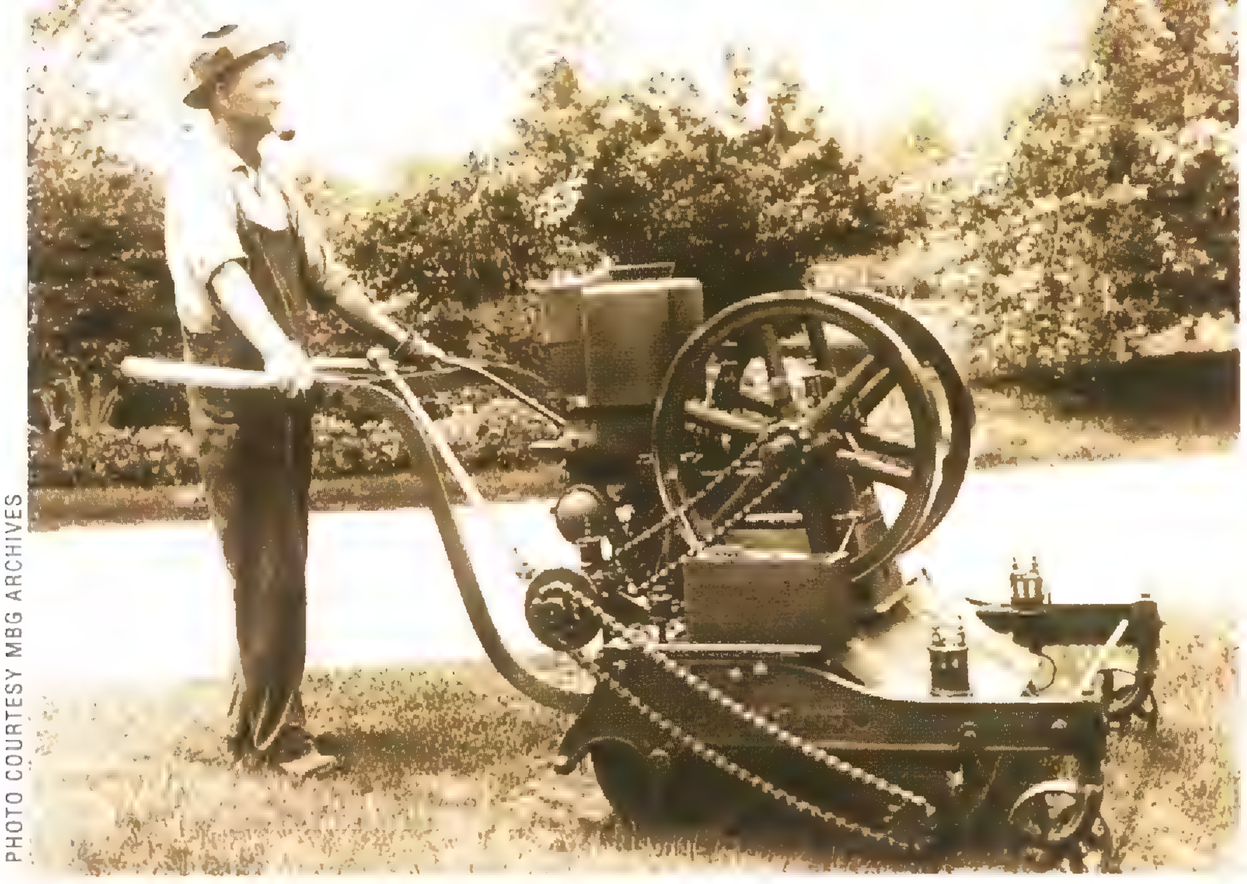


PHOTO COURTESY MBG ARCHIVES

*The first power mower at the Missouri Botanical Garden, July 1918.*

## FROM THE KEMPER CENTER FOR HOME GARDENING...

# WHAT TO DO IN THE GARDEN THIS MONTH

## May

### All month

*Ornamentals*: Pinch azaleas and rhododendron blossoms as they fade, and fertilize with an acid formulation. If spring rains have been sparse, begin irrigating, especially plants growing in full sun. Apples, crabapples, and hawthorns susceptible to rust disease should have protective fungicidal sprays applied beginning when these trees bloom.

*Vegetables*: Slugs will hide during the daytime beneath a board placed over damp ground. Check each morning and destroy any slugs that have gathered on the underside of the board. Growing lettuce under screening materials will slow bolting and extend harvests into hot weather. Place cutworm collars (easily made from cardboard strips) around young transplants.

*Fruits*: Mulch blueberries with pine needles or sawdust.

*Turfgrass*: Keep bluegrass cut at 1.5 to 2.5-inch height. Mow tall fescues at 2 to 3.5-inch height.

### Week 1

*Ornamentals*: Begin planting gladiolus bulbs as the ground warms. Plant hardy water lilies in tubs or garden pools. Continue monitoring pines for sawfly activity on new shoots. Don't remove spring bulb foliage or next year's flower production will decline.

*Vegetables*: Set out and stake tomato plants as soils warm. Begin planting sweet corn as soon as white oak leaves are as big as squirrel ears (isolate varieties to prevent crossing). Keep asparagus harvested for continued spear production (control beetles as needed). Thin plantings of carrots and beets to avoid overcrowding. Control caterpillars on broccoli and cabbage plants by handpicking or use biological sprays.

*Fruits*: Don't spray any fruits while in bloom.

### Week 2

*Ornamentals*: Begin planting warm-season annuals. Plant summer bulbs such as caladiums, dahlias, cannas, elephant ears.

*Vegetables*: Place a stake by seeds of squash and cucumbers when planting in hills to locate the root for watering later. Watch for striped and spotted cucumber beetles. Both may spread wilt and mosaic diseases to squash and cucumber plants. Plant dill to use when making pickles.

*Turfgrass*: Mow zoysia lawns at 1.5-inch height. Remove no more than one-half inch at each mowing. Apply post-emergence broadleaf weed controls now if needed.

### Week 3

*Ornamentals*: Scale crawlers are active now. Infested pines and euonymus should be treated at this time. Trees with a history of borer problems should receive their first spray now (repeat twice at 3-week intervals). Begin fertilizing annuals. Continue at regular intervals. Bulbs can be moved or divided as the foliage dies.

*Vegetables*: Remove rhubarb seeds stalks as they appear. Set out peppers and eggplants after soils have warmed. Plant sweet potatoes.

*Turfgrass*: Zoysia lawns may be fertilized now. Apply no more than 1 pound of actual nitrogen per 1,000 square feet.

### Week 4

*Ornamentals*: Pinch back mums to promote bushy growth.

*Vegetables*: Make new sowings of warm-season vegetables after harvesting early crops.

*Fruits*: Prune unwanted shoots as they appear on fruit trees.

*Turfgrass*: Watch for sod webworms emerging now.

## June

### All month

*Turfgrass*: Water turf as needed to prevent drought stress. Mow lawns frequently enough to remove no more than one-third the total height per mowing. There is no need to remove clippings unless excessive. Gradually increase the mowing height of zoysia lawns throughout the summer. By September, the mowing height should be 2 to 2.5 inches. Mow bluegrass at 2 to 3.5 inch height. Turfgrasses growing in shaded conditions should be mowed at the higher recommendations.

### Week 1

*Ornamentals*: Watch for bagworms feeding on many garden plants, but especially juniper and arborvitae. Deadhead bulbs and spring flowering perennials as blossoms fade. Thin seedlings to proper spacings before plants crowd each other.

PHOTOS BY LISA FRANCIS, JACK JENNINGS, JOSH MONKEN, AND FROM THE MBG PLANTFINDER

*Vegetables*: Repeat plantings of corn and beans to extend the harvest season.

*Fruits*: Oriental fruit moths emerge. Most serious on peaches where first generation attacks growing tips. Shoots will wilt. These should be pruned out. Thinning overloaded fruit trees will result in larger and healthier fruits at harvest time. Enjoy the strawberry harvest.

*Turfgrass*: Zoysia can be fertilized now while actively growing. Do not exceed 2–3 pounds of actual nitrogen fertilizer per 1,000 square feet per year.

## Week 2

*Ornamentals*: Apply organic mulches as the soil warms. Apply a balanced rose fertilizer after the first show of blooms is past. Apply a second spray for borer control on hardwood trees.

*Fruits*: Renovate strawberries after harvest. Mow the rows; thin out excess plants; remove weeds; fertilize and apply mulch for weed control. Summer fruiting raspberries are ripening now.

## Week 3

*Ornamentals*: Plant tropical water lilies when water temperatures rise above 70 degrees. Pruning of spring-flowering trees and shrubs should be completed before month's end. Softwood cuttings can be taken from trees and shrubs as the spring flush of growth is beginning to mature.

*Fruits*: Begin control for apple maggot flies. Red-painted balls that have been coated with tanglefoot may be hung in apple trees to trap egg-laying females. Spray trunks of peach trees and other stone fruits for peach tree borers.

## Week 4

*Ornamentals*: Trees and shrubs may still be fertilized before July 4. Continue spraying roses with a fungicide to prevent black spot disease.

*Fruits*: Prune and train young fruit trees to eliminate poorly positioned branches and to establish proper angles.

**For additional information on any of these topics, visit the Kemper Center for Home Gardening or check out our Gardening Help section at www.mobot.org.**

# FEATURED PLANT OF MERIT

PHOTO BY ALAN STENTZ

## Spanish Bluebell

*Hyacinthoides hispanica*

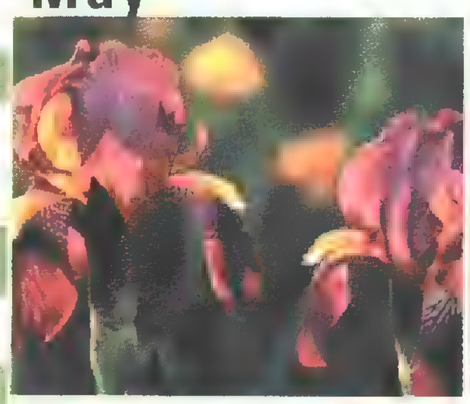
Native to Spain, Portugal, and northwest Africa, each perennial bulb of Spanish bluebell produces a clump of tulip-like leaves from which rise rigid flowering stems bearing 12 or more pendant, bell-shaped, blue-to-lavender flowers. A great spring bloomer for borders or for naturalizing under trees and in open woodland areas. Plants go dormant in summer. The first bulb to be named a Plant of Merit.

*Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org*

# PLANTS IN BLOOM

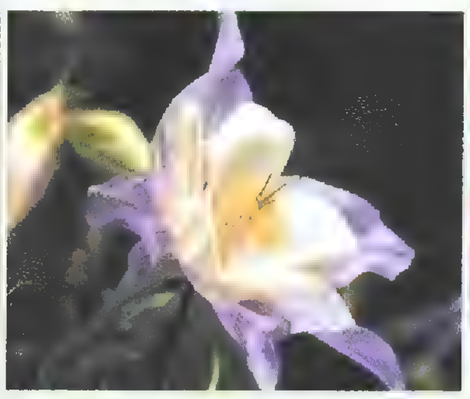
for a complete list of plants in bloom go to www.mobot.org

## May



*Iris Garden*

*Peonies in the Japanese Garden*



*Columbine in the Kemper Center and the Strassenfest Garden*

*Dogwoods in the English Woodland Garden*

*Trumpet Vine in the Linnean House*

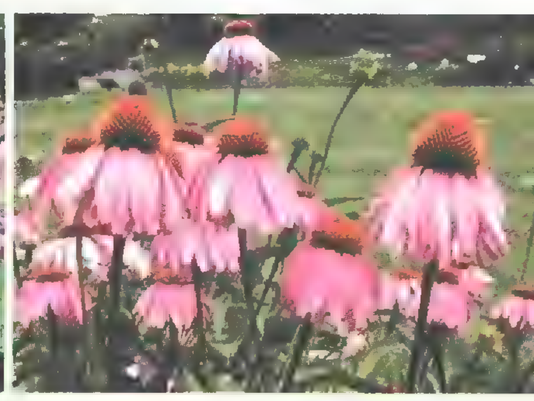
## June

*Roses in the Lehmann and Gladney Rose Gardens*

*Hardy Geraniums in the Kemper Center*

*Asiatic Lilies in the Bulb Gardens*

*Chinese Astilbe in the Chinese Garden*



*Coneflowers in the Boxwood Garden and the Kemper Center*

# UPCOMING SHOWS & SALES

**Metropolitan St. Louis African Violet Council Show and Sale**
*Saturday–Sunday, April 30–May 1, 9 a.m. to 5 p.m.*

**St. Louis Herb Society Herb Weekend**
*Friday–Sunday, April 29–May 1, 9 a.m. to 5 p.m.*

**The Rose Society of Greater St. Louis Mini Rose Sale**
*Saturday, May 7, 9 a.m. to 4 p.m.;*
*Sunday, May 8, 9 a.m. to 5 p.m.*
Unusual cultivars, growing tips, gifts for mom.

**Greater St. Louis Dahlia Society Sale**
*Saturday–Sunday, May 7–8, 9 a.m. to 5 p.m.*
Over 60 varieties for St. Louis, from dinner plate to miniatures. Limited supply of new open-faced hybrids.

**Bonsai Society of Greater St. Louis Show and Sale**
*Saturday–Sunday, May 7–8, 9 a.m. to 5 p.m.*

**American Rock Garden Society Sale**
*Saturday, May 28, 9 a.m. to 5 p.m.*

**The Rose Society of Greater St. Louis Spring Rose Show**
*Saturday, May 28, noon to 5 p.m.;*
*Sunday, May 29, 9 a.m. to 5 p.m.*
Rarely-seen varieties, great for photographers.

**Carnivorous Plant Society Show & Sale**
*Saturday, June 4, 10 a.m. to 5 p.m.*
Tropical and native pitcher plants, Venus flytraps, etc.

**Mid-America Regional Lily Society Show**
*Saturday, June 11, noon to 5 p.m.;*
*Sunday, June 12, 9 a.m. to 5 p.m.*
Rare and unusual varieties, cut flowers in bouquets.

**St. Louis Horticultural Society Sale**
*Saturday, June 18, 9 a.m. to 5 p.m.*
Hundreds of perennials from members' home gardens: celadine poppies, lamium, lilies of the valley, hostas, etc.

**West County Daylily Society Show & Sale**
*Sunday, June 26, 9 a.m. to 5 p.m.*
Hundreds of cultivars, all types and sizes, Stout Medal winners 'Stella De Oro,' 'Mary Todd,' 'Super Purple.'

PHOTO BY ELIZABETH MCNULTY

# PLASTIC POT RECYCLING

Don't throw away those plastic pots and trays after planting your new garden plants! Recycle them and receive a free pass for two to the Garden. In 2004, the Garden's Plastic Pot Recycling Program last year converted 40,000 pounds of horticultural plastic into 13,000 linear feet of plastic "lumber. Packaged into raised bed kits, the lumber was sold to gardeners at cost. Complete the recycling loop: recycle your pots and purchase new garden planks.

*Collection dates:* Due to the continued enthusiastic response, the program has been extended from four to six weekends this year. Recycle your pots and receive a free pass every weekend from May 21 to June 26, 9 a.m. to 4 p.m. Drop-off site is the Monsanto Center parking lot, 4500 Shaw Boulevard. Gardeners should empty all soil from containers and remove any metal hangers before recycling. Household plastic and clay pots cannot be accepted.

*Purchase planks:* The Pots to Planks brochure and order form is available online at www.mobot.org/hort/activ/plasticpots.shtml. Gardeners can place an order now for raised bed kits to be delivered in August. Supply is limited, so call the plastic lumber hotline at (314) 577-9443 to learn about availability.

All sales of plastic lumber and raised bed gardening kits go toward the cost of collection and recycling.


LITTLE SHOP AROUND THE CORNER

ANTIQUES • HOME & GARDEN FURNISHINGS

*Spring Cleaning?*

Please consider donating those unwanted antiques, and vintage home and garden treasures to the Little Shop. It's one more tax-deductible way to support the Garden!

4474 Castleman, Saint Louis, Missouri 63110
(corner of Shaw and Vandeventer) • (314) 577-0891


## Great Garden Contest

Co-sponsored by the Missouri Botanical Garden, The Bug Store, and FOX–2, the annual *St. Louis Post-Dispatch* Great Garden Contest features prizes of over $7,000 in gift certificates. Categories include: Best Garden Design by an Amateur; Best Group Garden; Best Home Garden by an Amateur with Professional Help; Best Water Garden; Best Whimsical Garden; Best Native Plant Garden; and Best Spring Garden. Entries must be postmarked by June 17. Watch the *Post-Dispatch* for the April 30 launch and through the month of May for more details.

PHOTOS BY EMILY SNIDER AND JUSTIN VISNESKY

## VIP Visitors

MBG's spectacular horticultural collections have inspired prestigious visits by several national plant societies. This spring, the American Daffodil Society held its annual convention in St. Louis with specific intent to visit the Garden's display. On April 9, over 200 attendees from six different countries toured the grounds, including several of the world's top hybridizers and judges.

## Talipot Palm

The Sri Lankan talipot palm (*Corypha umbraculifera*) is one of the largest of all fan palms, growing unusually slowly while young, but shooting up dramatically as it reaches maturity to heights approaching 80 feet. The Garden's talipot dates to the construction of the Climatron in 1961 and for years, topped out at six feet tall, but then began its rapid final growth spurt in the early 1990s. By 2005, the giant 20-foot palm fronds were bristling against the top of the Climatron's 70-foot interior. On March 8, as the talipot was approaching the natural end of its lifespan, horticultural supervisor and certified arborist Ben Chu ascended the palm to take radical action: the removal of the entire top in the hopes that it might sprout for a few years more.

## Missing Trees

In February, the Missouri Botanical Garden, with the help of a TRIM grant from the Missouri Department of Conservation, assisted the City of St. Louis in the removal of eight dead or dying pin oaks along Tower Grove Avenue and two pear trees on Alfred. The trees had been planted along the street side of Henry Shaw's original stone wall around 1940, and as they grew, were increasingly pinched between the sidewalk and the wall's foundation. Operations Manager Jim Cocos is meeting with City Foresters now to plan new and more diverse replacements.

## Hide-a-Gnome

The gnome was last sighted in the Kemper Center Bird Garden, hanging out with his feathered friends, but upon discovery, he fled once again. Weeks went by before the elusive gnome was sighted once more…this time, in the Secret Garden. A double hedge of juniper encloses the Jane and Whitney Harris Secret Garden, offering plentiful hiding places. The garden features a wide array of flowering perennials selected for their long flower production, such as veronica, phlox, and coneflowers.

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PHOTO BY JUSTIN VISNESKY

## Eco-Pot Alternatives

While the Garden's Plastic Pot Recycling Program recovers 350,000 pounds of waste, the total plastic generated by the horticulture industry each year is around 350 million pounds. Home gardeners have increasingly earth-friendly options—temporary pots made of peat, card, and even newspaper—but the nursery industry requires more durable materials. Recently, a Swiss firm has begun manufacturing durable pots that are fully natural and biodegrade when planted in soil; they are made from *Miscanthus*. This Japanese perennial grass is fast growing and can be harvested annually like sugar cane.

*Plants in the Garden's greenhouse in biodegradable* Miscanthus *"plastic" pots.*

# VOLUNTEERS

PHOTOS BY JOSH MONKEN

## Volunteer Service Recognition

Last year, volunteers at the Garden increased to 1,348. They contributed 103,401 hours of service, or the equivalent of 53 additional full-time employees. The largest numbers of volunteers work in the Horticulture and Education divisions, but volunteers help out in almost every area, and the Garden could not operate at current levels of international renown and community outreach without the help of these dedicated individuals and groups. On March 10, the Garden hosted the annual volunteer service recognition luncheon honoring volunteers with awards for special service and for their 10-, 20-, and 30-year commitments.

*Thirty-year volunteers: Alma Reitz, Dr. Raven, Joanne Fogarty, and Nadine Mahe*

*Twenty-year volunteers: Catherine Vanderpearl, Peggy Abel, Roberta Dearing, Florence Hoey, Rosemary Murphy, Dr. Raven, Charlotte Godat, Pat Bushman, Jane Gleason, and Suze Stark. Not Pictured: Dolly Darigo, Virginia Hrevus, Janne Niemoeller, and John Wright.*

*Ten-year service volunteers: First Row: George Adler, Elaine Bante, Virginia Noe, Linda Pozza, Judy Lincoln, Maud Jeanty, Nancy Bell, Bernice Raineri, Sophie Connor, and Jean Racowsky. Second Row: Kay Yatskievych (staff), Florence Gaffney, Joan McLean, Lynn Slackman, Gordon Gosh, Jim Schuck, David Horton, Kathleen Warth, Don Kinsey, Irene Hercules, Nancy Kinsey, George Thornburgh, Lucyann Boston, Steve Feiner, Alexandra McNett. Not pictured: Frank Becklean, Aileen Bunton, Dick Cone, Karen Cox, Sue Fields, Virginia Horrell, Sonya Kendrick, Suzanne Moak, Mary Jo Nowobilski, Joy Sandweiss, Todd Schroeder, Joanna Skwiot, Mary Smidt, Robert Vander Linden, and Leigh Walker.*

## Many Ways to Make a Difference

Members of the Garden have already helped make a difference through their financial contribution, but you can make a difference again when you contribute your time as a volunteer. A wide variety of volunteer opportunities is available, everything from hands-on horticulture, to instruction, to media and library work. For more information, please contact Jackie Juras at (314) 577-5187.

## Volunteer Instructors Needed

Do you enjoy the excitement of sharing knowledge with young minds? Volunteer instructors teach prewritten classes to school groups visiting the Garden. Training to become a Volunteer instructor includes a mentorship program with experienced instructors. Instructors are asked to teach two hours per week and attend a monthly meeting. For more information, call Rebecca Young at (314) 577-9549.

PHOTO BY JUSTIN VISNESKY

## Congrats, Docents!

In February, the Garden celebrated another graduating class of docents. Pictured from left: volunteer trainers Carol Donelan and Dick Sokol; new docents Jerry Buterin, Leslie Clark, Daniel Gravens, Fredric Rissover, Francine Boillat; Youth Education Coordinator Rebecca Young.

Garden docents lead thematic walking tours of the Garden for all ages, focusing on school groups. They are also responsible for leading the daily public tour at 1 p.m. To become a docent, candidates must attend five six-hour training sessions before beginning to serve as a guide, and another 15 classes once actively giving tours. Interested persons are invited to submit their names now so they can learn more before the October training. For more information, call Rebecca Young at (314) 577-9549.

# SITTIN' PRETTY AT THE GARDEN

*The Garden Gate Shop's new garden furniture made of recycled milk bottles has arrived! The plastic is milled like lumber so it really looks like wood. Very low maintenance and a 20 year guarantee from the manufacturer who has been in business almost 100 years.*

PHOTO BY JUSTIN VISNESKY

## GARDEN GATE SHOP

4344 Shaw Boulevard
(314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds benefit the Garden.

## SPECIAL EVENTS

### Sales

| | |
|---|---|
| **April 5** | Members Day: 20% off |
| **May 11–15** | Members sale: 20% off |
| **June 4** | Cactus workshop with the Henry Shaw Cactus Society |
| **June 4–5** | Members receive an additional 10% off all cactus, carnivorous, and succulent plants |

### Trunk Shows *10 a.m. to 5 p.m.*

| | |
|---|---|
| **May 6–8** | Del Sol jewelry trunk show |
| **May 14–15** | Pavla jewelry trunk show |
| **May 28–30** | Webster Groves Herb Society Silver Cat jewelry trunk show |
| **June 4–5** | Jewelry By Lacey trunk show |
| **June 11–12** | Doug Corley insects and fossils show |
| **June 17–19** | Del Sol jewelry trunk show |
| **June 25–26** | Pottery by Yael<br>Jewelry by Peggy Jacobsmeyer |

### Book Signings

| | |
|---|---|
| **May 14** | Mike Miller will sign his new books: *Missouri Gardener's Guide Revised Edition* and *Month-by-Month Gardening in Missouri*, noon to 2 p.m. |
| **May 21** | Don Kurz will sign his books: *Trees of Missouri, Ozark Wildflowers*, and others; 11 a.m. to 1 p.m. |
| **June 23** | Martin Rickard will sign his book *The Plantfinder's Guide to Garden Ferns*, noon to 1 p.m. |

### Food Tasting *every Saturday, 12:30 to 3:30 p.m.*

PHOTO BY BETH HAINES

## Tribute and Memorial Gift Program

### *Perfect for Mother's Day*

A tribute gift to the Garden is a wonderful way to honor family and friends. Tributes are perfect for birthdays, graduations, anniversaries, weddings and engagements, or for sending your condolences as an expression of sympathy. Once the tribute is made, a personal acknowledgement is immediately sent to the family or individual being honored, without reference to the size of the gift, and your tribute is listed in the next issue of the Garden's *Bulletin*. Tribute gifts are directed to the Garden's Henry Shaw Fund, our most critical resource for annual operating support.

A tribute envelope is included in this issue of the *Bulletin*. If you have questions regarding tribute giving opportunities at the Garden, please call (314) 577-0206 or (314) 577-0291. You can also make a tribute gift online at our website, www.mobot.org.

# TRIBUTES

January–February 2005

*For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.*

## in honor of

**Mrs. Grace Appelbaum**
Jane and Mary Otto

**Mrs. John A. Blumenfeld**
Mrs. A Janet Monsey

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Mrs. Lilly Ann Abraham

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Mrs. Ellen Ross

PHOTO BY BETH HAINES

## Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Patricia Arnold, Director of Development, at (314) 577-5120 for further information and a complimentary brochure. Visit our informative new website at www.mobot.org. Click on Membership, then Planned Giving Guide.

* deceased

# MEMBERS' ENTRY COURT

*Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from January 15, 2005 through March 15, 2005.*

### bronze signature bricks

**Charity Fitzgerald**
Mr. and Mrs. Michael Fitzgerald

**Linda and Ben Goldstein**
Dr. and Mrs. Ben Goldstein

**John T. Heard, Jr.**
Edith L. Heard

**James Horlacher**
Janet McAfee Weakley

**Murphy Horlacher**
Janet McAfee Weakley

**Casey Jones**
Janet McAfee Weakley

**Nick Jones**
Janet McAfee Weakley

**Frank Friedrich Kling**
F. Friedrich Kling

**Marian Bland Langdon**
Marian Bland Langdon

**Connie M. Malacarne**
Connie M. Malacarne

**Paul and Kathleen Paese**
Paul and Kathleen Paese

**Kurt and Jane Shrum**
Kurt and Jane Shrum

**Margie Greenlee Smith**
Anonymous

**John and Diane Tapp**
John and Diane Tapp

**Paul and Jamie Jaycox Von Tress**
Mr. and Mrs. Paul E. Von Tress

**John and Audrey Wattler**
John and Audrey Wattler

**Kenneth R. Wheat and Jan Wheat**
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**Willaredt Acres Inc.**
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**Wiltse Family**
Pat and Rod Wiltse

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**Dr. Phillip Apprill**
Dr. Phillip Apprill

**Anna Bauer**
Mr. and Mrs. Herman Bauer

**Carolyn Buckeridge**
Carolyn Buckeridge

**Cody**
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**Pat and Lewis Chartock**
Pat and Lewis Chartock

**Elena and Charles Colonnello**
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**Mary Catherine Counts**
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Delargy Family

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Ron and Carole Huffman

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Patrick and Donna Larson

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Ms. Rose Lauman

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Linda K. Leinicke

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Kitty Pearl

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Mr. Ken Roth-Roffy

**Beverly E. Schmidt**
Ms. Beverly E. Schmidt

**Lillian Witte**
Anonymous

For additional information regarding the Garden's brick program, please contact the Development Office at (314) 577-0874 or visit our website, www.mobot.org.

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education and the Garden

2005 summer programs

PHOTO BY JOSH MONKEN

## Summertime FUNTIME for pre-K to 12!

Learning science is fun when it means hands-on interactive experiments and exploring the natural world. Children from pre-kindergarten to high school can discover the wonders of nature this summer with programs at the Garden, Shaw Nature Reserve, Butterfly House, and EarthWays Center.

### Camp MBG at the Garden

Little ones preK–K (ages 4–6) are invited to explore flowers, fountains, and the dirty world of worms, among many topics, in a series of 90-minute classes. Grades 1–8 journey into the real world of forensics, explore Missouri natural wonders, and participate in creek ecology restoration.

### Summer at Shaw Nature Reserve

Preschool class explores nature "through a child's eyes." Camps for grades 1–4 explore how your senses make "sense" of the world, and the art of the science experiment.

### Backyard Science at the Butterfly House

Go eye to eye with six-legged friends, explore roots and seeds, study the weather, and observe other little critters that crawl and fly through your own backyard. Limit 15 students. Chrysalis (K–grade 2): June 27–July 1. Butterfly (grades 3–5): July 25–29.

**Camp EarthWays** for grades 4–6, July 11–5. See page 10 for details.

A few spaces are still available. If you are a member with children or grandchildren, you should already have received your summer programs catalog in the mail. Download a copy of the course catalog from the Garden's website (www.mobot.org), or call (314) 577-9506 to request one by mail.

# CALENDAR OF EVENTS

Missouri Botanical Garden Library
3 1753 00323 2094

PHOTO BY JOSH MONKEN

## Mother's Day Brunch

*Sunday, May 8*

Treat mom to an elegant and delicious brunch at Sassafras, the Garden's newly remodeled cafe! Reservations required, please call (314) 577-9530. Seatings at 10 a.m., 11:30 a.m., and 1 p.m. $24.95 per person; $11.95 per child age 12 and under (tax not included)

sassafras

*Catering St. Louis is the exclusive caterer of the Missouri Botanical Garden*

## May

**Fri.–Sun, Apr. 29–May 1**
St. Louis Herb Society's Herb Weekend.

**Sat.–Sun., Apr. 30–May 1**
Metropolitan St. Louis African Violet Council's show and sale.

**Sun., May 1**
Classic 99's "From the Garden, Live"® concert: violinist David Halen, concertmaster of the Saint Louis Symphony, and Marc Gordon, English horn. Free. Call (314) 725-0099 for ticket information.

Meet Mike Miller, host of the KMOX "Garden Hotline," as he signs his latest books. Noon to 2 p.m. BH.

**Tues., May 3–27**
"Last Stand: America's Virgin Lands" photo exhibition drawn from the National Geographic book documents America's endangered wilderness areas.

****Wed., May 4**
Henry Shaw Dinner, by invitation only.

**Thurs.–Fri., May 5–6**
26th Annual St. Louis Storytelling Festival. For information, visit www.umsl.edu/~conted/storyfes/

****Fri., May 6**
Members' Spring Luncheon. See page 8.

Members' Spring Wildflower Pre-sale. See page 10. SNR.

**Sat., May 7**
Spring Wildflower Sale. See page 10. SNR.

**Fri.–Sat., May 7–8**
Greater St. Louis Dahlia Society sale.

Bonsai Society of Greater St. Louis show and sale.

Rose Society of Greater St. Louis mini rose sale. 9 a.m. to 4 p.m.

**Wed., May 11**
Book signing by Janet Marinelli, editor-in-chief of the recently released book *Plant*. Noon to 2 p.m. GGS.

**Sat., May 14**
Meet Mike Miller, host of the KMOX "Garden Hotline," as he signs his latest books. Noon to 2 p.m. GGS.

BUZZ: "Be An Insect Keeper" at the Butterfly House! $13 ($9 members) includes child and parent. 2 to 3:30 p.m. BH.

**Sundays, May 15, 22, Jun. 12, 26**
Mommy and Me Tea. See page 11. BH.

**Sat., May 21**
Author Don Kurz signs his books, *Trees of Missouri, Ozark Wildflowers*, and others. 11 a.m. to 1 p.m. GGS.

**Sat.–Sun., May 21–22**
Chinese Culture Days. See page 9.

EarthWays Center public tours at 11 a.m., noon, 1, and 2 p.m. $2 (free for members)

****Thurs., May 26**
Members' Rose Evening. See page 8.

**Sat., May 28**
American Rock Garden Society sale.

**Sat.–Sun., May 28–29**
Rose Society of Greater St. Louis spring rose show. Sat.: noon to 5 p.m. Sun: 9 a.m. to 5 p.m.

**May 30–Jul.**
Exhibition of b

## June

**Wednesdays, Jun. 1, 8, 15, 22, 29**
Whitaker Music Festival. See page 9.

****Fri., Jun. 3**
Members' Musical Evening. See page 8.

**Sat., Jun. 4**
Carnivorous Plant Society show and sale. 10 a.m. to 5 p.m.

**Sun., Jun. 5**
Black Rep at the Garden. See page 8.

**June 6, 12, & 13**
Camp BUGaloo: "Bugs: Movers and Shakers." BH.

**Fri.-Sun., Jun. 10–12**
Women in Nature weekend. See page 10.

**Sat.-Sun., Jun. 11–12**
Mid-America Regional Lily Society show. Sat.: noon to 5 p.m. Sun: 9 a.m. to 5 p.m.

****Sun., Jun. 12**
Members' Garden Tour. See page 8.

**Sat., Jun. 18**
St. Louis Horticultural Society sale.

**Sat.–Sun., Jun. 18–19**
EarthWays Center public tours at 11 a.m., noon, 1, and 2 p.m. $2 (free for Garden members)

**Sun., Jun. 19**
Father's Day Splash and Spray. See page 11. BH.

****Thurs., Jun. 23**
Members' Day: The Temperate Fern Garden. See page 8.

**Fri., Jun. 24**
Bed Bugs: Spend A Night with the Butterflies. See page 11. BH.

**Sun., Jun. 26**
West County Daylily Society show and sale.

PHOTO BY MARIAN BRICKNER

## Father's Day

This Father's Day give Dad a Garden membership and receive a free Whole Thing car wash from Waterway Gas and Wash, "The Best Car Washes in Town." His gift membership will be entered into a drawing for a Clean Car Club Membership, which provides unlimited car washes all year long and discounts on gasoline. Offer valid May 16 through June 19, 2005. Stop by the Membership Desk, call (314) 577-5118, or visit us at www.mobot.org for details.

## the key

| | | | |
|---|---|---|---|
| CA = Cohen Amphitheater | GGS = Garden Gate Shop | MC = Monsanto Center | SP = Spink Pavilion |
| CL = Climatron | JG = Japanese Garden | RC = Ridgway Center | ** denotes a members-only event. |
| EH = EarthWays Home | KC = Kemper Center | SNR = Shaw Nature Reserve | $ denotes an additional fee. |

*All events are free with admission or membership unless otherwise noted.*

# THE 11TH ANNUAL WHITAKER MUSIC FESTIVAL

The best of local jazz, blues, bluegrass, pop, and rock-n-roll—FREE—every Wednesday evening in June and July. Please note: concerts begin at 7 p.m. this year and take place on the Linnean Lawn.

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| Events hotline | (314) 577-9400 |
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| Garden Gate Shop | (314) 577-5137 |
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| Planned Gifts | (314) 577-5120 |
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| TDD (hearing impaired) | (314) 577-9430 |
| Tribute Gifts | (314) 577-5118 |
| Volunteer Services | (314) 577-5187 |

## Contact information

Missouri Botanical Garden (314) 577-5100
4344 Shaw Boulevard, St. Louis, MO 63110

Butterfly House (636) 530-0076
15193 Olive Blvd., Faust Park, Chesterfield, MO 63017

EarthWays Center (314) 577-0220
3617 Grandel Square, St. Louis, MO 63108

Little Shop Around the Corner (314) 577-0891
4474 Castleman Drive, St. Louis, MO 63110

Shaw Nature Reserve (636) 451-3512
Hwy. 100 & I–44, Gray Summit, MO 63039

**Hours**
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Parking is free.

**General Admission***
Adults age 13–64....$7 (seniors 65+.....$5)
Members and children 12 and under.....free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings from 9 a.m. to noon (unless special event pricing applies).

** Special events may require an additional fee.*

**Editor:** Elizabeth McNulty
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MISSOURI BOTANICAL GARDEN

# Bulletin

July/August 2005 Vol. 93, No. 4

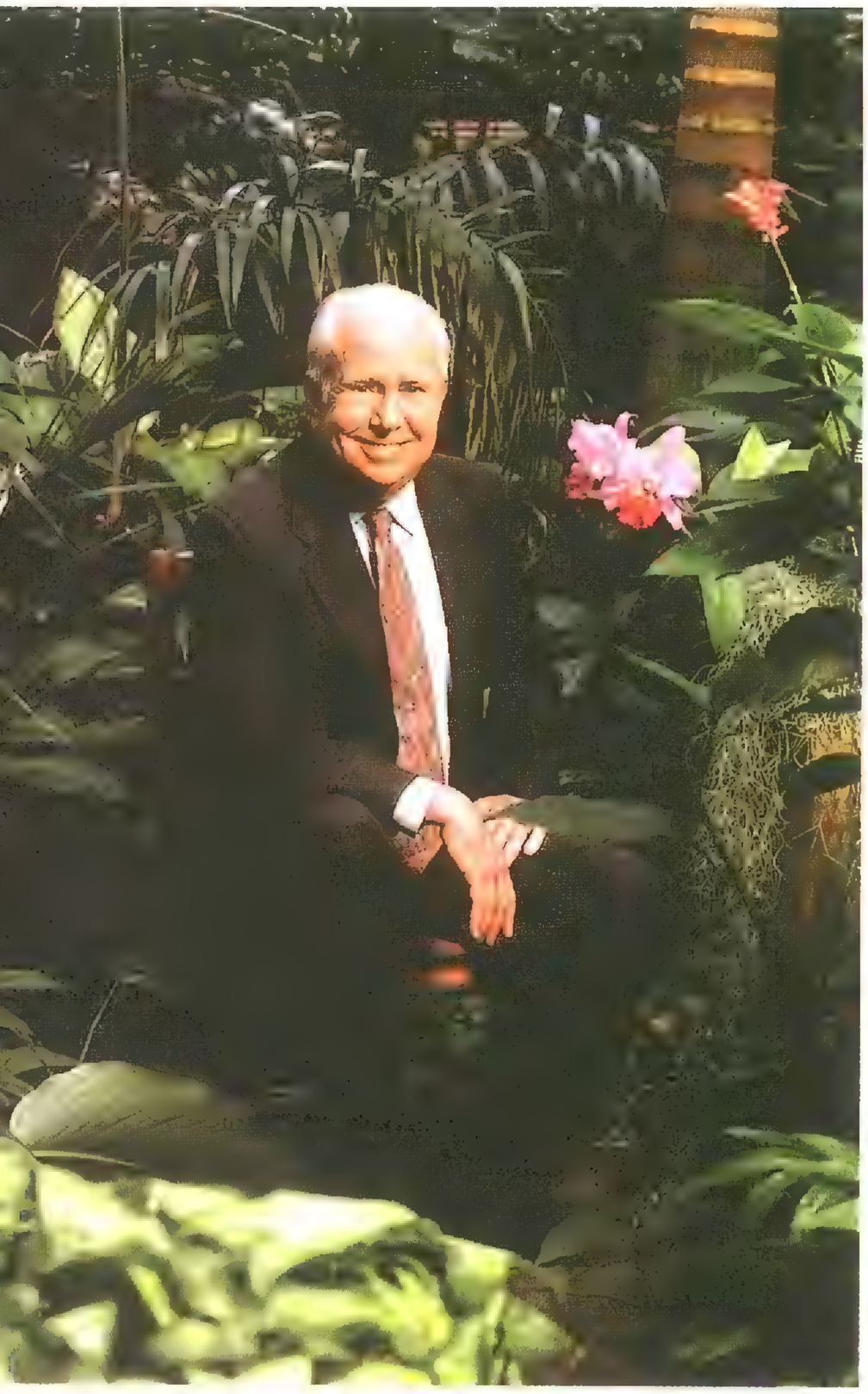

PHOTO BY PETER HOWARD

*nd share knowledge*
*about plants and their environment,*
*order to preserve and enrich life.*

# from the director...

What fun we're having this summer! The construction of the Doris I. Schnuck Children's Garden—a Missouri Adventure—has moved into high gear. I invite all visitors to stroll over and have a look at the behind-the-scenes magic on display as waterfalls emerge seemingly out of thin air (with a little rebar and concrete) and artists handcraft gigantic trees for the Canopy Climb. In April 2006, the Children's Garden will prove a major new attraction for young families, with fun, educational activities for all ages.

As we celebrate Henry Shaw's birthday on July 24, it is a fitting time to remember his injunction to trustees to keep the surrounding areas "pleasant and attractive." August marks the second anniversary of the historic agreement between the Garden District Commission and the McRee Town Redevelopment Corporation with McBride and Son Homes to build the largest market-rate housing development in the City of St. Louis in 50 years.

After only one year of construction of Botanical Heights, 14 houses are complete and owner-occupied. Fifty-eight more homes are sold and under construction. A second phase is scheduled for this fall. The primary stakeholders of the community—the residents themselves—have shown dynamic leadership to bring these exciting developments to pass. We are proud of the progress our neighbors have made to strengthen and revitalize the community.

As one of the top three botanical research institutions in the world, the Garden receives numerous awards and prizes. This spring, a graduate student from the Congo conducting research at the Garden received the Goldman Prize, widely considered the "Nobel Prize for the environment." His story is an inspiration for all of us to strive to be Stewards of the Earth.

Peter H. Raven, *Director*

Peter H. Raven

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GARDEN LIBRARY

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## editor's pa

Things are heating up. Drought-like conditions in May have made for a hot, dry start to summer, give or take a thunderstorm or two. So long as gardeners have kept their plots well-watered, that heat should make for thriving tomato plants. Bring your prize tomatoes to the second annual Best Homegrown Tomato Challenge (see page 8) and try your luck. The weekend prior, on July 24, we celebrate Henry Shaw's birthday with cookies, festivities, and the first-ever Petal Pedal. Join the party!

If you'd rather beat the heat, opportunities are plentiful: enjoy the warm (but not sweltering) evenings of the Whitaker Music Festival, bring your cherished antiques to the air-conditioned Shoenberg Auditorium for a free appraisal à la Antiques Roadshow, or let Cindy Gilberg teach you all about shade gardening, so you won't have to toil in the sun. Visit the EarthWays Center and find out about innovative ways to keep cool, see the new exhibits in the climate-controlled Butterfly House, or take a walk in the wetlands of the Shaw Nature Reserve.

Whether it's fun in the sun, or keeping cool by the pools and fountains, the Garden's family of attractions is your headquarters for summertime relaxation.

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

# Stewards of the Earth

the Campaign for the Missouri Botanical Garden

Botanical Heights is no longer just a name on an architect's plan. Since summer of 2004, construction crews have worked seemingly without stop, building attractive new single-family housing in this formerly blighted neighborhood.

## A brief history of the area

When Garden founder Henry Shaw drafted his last will and testament in the 1880s, the area that would become McRee Town was mostly farmland with only one or two houses. Nevertheless, Shaw charged the trustees of the Missouri Botanical Garden with ensuring that the areas adjacent to the Garden remain "pleasant and attractive" to visitors.

The McRee Town neighborhood would remain undeveloped until the early 20th century, when Liggett and Myers Tobacco began building housing there for its employees. It remained a solid, upwardly mobile neighborhood until the 1960s when, like many St. Louis neighborhoods, it was badly scarred by construction of the interstate highway system.

By the 1990s, McRee Town was plagued with a staggering crime rate for a relatively small community. Home ownership fell from 34 percent in the 1970s to 4 percent in 2000, bottoming out at only 35 owner-occupied properties. Over 56 percent of the buildings were rated as "dilapidated or nearly unlivable condition" by the U.S. Department of Housing and Urban Development. Add to this a population decline of more than 30 percent in the last 10 years, high unemployment, infant mortality, and lead poisoning.

## The Work of the Garden District Commission

In a community-based process initiated by the Garden, area residents are leading the revitalization. Established with Danforth Foundation funding in 1998, the Garden District Commission is an independent entity composed of residents of the four neighborhoods surrounding the Garden, who have been instrumental in planning and implementing the new neighborhood development to be known as Botanical Heights.

- In August 2003, the Garden District Commission, a non-profit organization of neighborhood residents, and the McRee Town Redevelopment Corporation entered into an agreement with McBride and Son Homes to build homes in McRee Town, with prices ranging from $129,000 to $300,000.
- In June 2004, McBride and Son Homes held a groundbreaking at 39th Street and Blaine Avenue, location of future display homes. In attendance were U.S. Senator Christopher "Kit" Bond, who obtained federal funding for the project; St. Louis Mayor Francis Slay; Alderman Joseph Roddy; Dell Breeland, President of the McRee Town Neighborhood Association and a long-time resident of that community; and Darryl T. Jones, President of the Garden District Commission.
- In August 2004, the new Botanical Heights development made local headlines as dozens of people lined up overnight to get first pick of the new lots. By day's end, 50 people, including eight city police officers and two firefighters, had signed contracts.

## Today

Springtime in Botanical Heights finds 14 houses already completed and owner-occupied, with 58 more homes currently under construction. All houses in this initial phase of development are sold. Phase II of the residential development will commence in fall 2005, with another 75 new single-family homes, and demand is so great that a lottery system will be used for home purchase applicants.

Thanks to the dedication and leadership of the Garden District Commission and the McRee Town Neighborhood Association, the local citizens have been able to turn the tide and now watch the construction of these attractive, new market-rate houses in this formerly blighted community. In a collaboration on a grand scale, federal, state, city, and local leaders have raised $13 million to support the predevelopment costs. McBride and Son Homes will invest an estimated $40 million for the construction and marketing of the homes. St. Louis City officials estimate that, when complete, this neighborhood rejuvenation will result in enhanced surrounding neighborhoods and positive financial support via tax revenues for the city.

*By spring 2005, 14 of 72 houses in the first phase of Botanical Heights construction were complete and owner-occupied. Construction continues on the remaining 58. All phase I homes are sold, and construction of the 75 additional homes considered phase II is slated to begin in fall 2005. Demand is so great that a lottery system will be used for home purchase applicants. On May 8, the Members' Board toured the display homes.*

PHOTO BY TRENT FOLTZ

**join us...**

Neighborhood revitalization is a major component of the Garden's Stewards of the Earth Campaign. For more information on how you can help, please contact Director of Development Patricia Arnold at (314) 577-5120.

# NEWS

## Henry Shaw Dinner

On May 4, the annual Henry Shaw Dinner kicked off with a breezy cocktail party on Spoehrer Plaza before the dinner program in the Orthwein Floral Display Hall. Featured guest of honor William Fahey, CEO of the National Geographic Society, received the Henry Shaw Medal on behalf of that illustrious institution. Guests were treated to the first viewing of the new statue that will form the centerpiece of the George Washington Carver Garden, while acclaimed sculptor Tina Allen was in attendance.

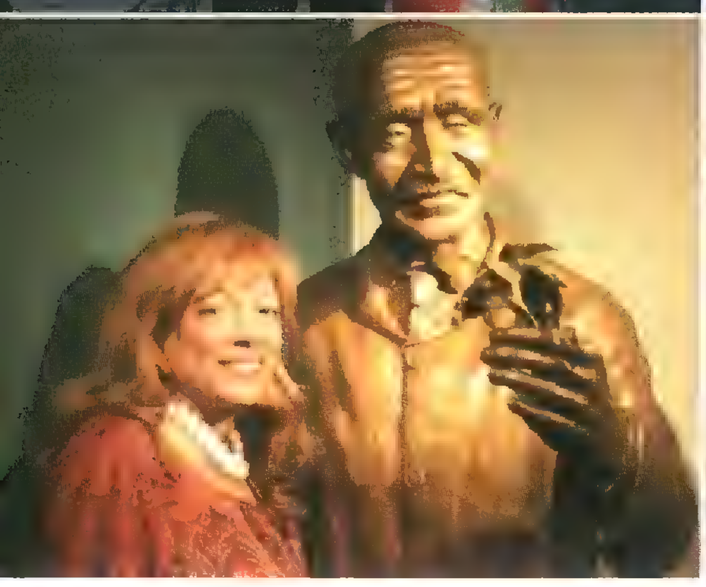


PHOTO BY JUSTIN VISNESKY

## Goldman Prize

On April 18, Missouri Botanical Garden researcher Corneille Ewango was awarded the Goldman Prize for risking his life to protect the Okapi Wildlife Reserve in the Democratic Republic of Congo.

The $125,000 prize, awarded annually to six individuals, is widely considered the "Nobel Prize for the environment."

During the deadly civil war in the former Zaire (1996–2002), Ewango rallied local residents to protect the reserve where he worked as a botanist. The government had collapsed, leaving large areas of the country under the control of rebel soldiers. Despite widespread mass murder, Ewango opted to stay, to bury key research in the forest, and to try to convince the rebels that the reserve was important to them as well.

"I knew that if I didn't do something, everything on the reserve could be lost," says Ewango. As the situation deteriorated over the years, Missouri Botanical Garden researcher Roy Gereau helped Ewango apply to UMSL. Once accepted, Ewango and a few reserve workers managed to evade rebel troops in the forest and escape to Beni, where Ewango rejoined his family and flew to the United States.

Today, Ewango is completing his Master's degree at UMSL and plans to return to the Congo to continue conservation work.

PHOTO BY EMILY SNIDER

## Prehistoric Pines

One of the world's oldest and rarest plants, a living fossil dating back to the era of the dinosaurs, is being grown in the Missouri Botanical Garden greenhouse as part of an international collaboration to safeguard its survival.

The Wollemi pine (*Wollemia nobilis*) was rediscovered by an Australian National Parks officer in the Wollemi National Park outside Sydney in 1994, 90 million years after the tree's heyday. Fewer than 100 mature plants are known to exist in the wild, and their location is kept secret to protect their fragile natural habitat and to guard against poaching.

A member of the Araucariaceae conifer family, the Wollemi pine features dense, waxy, green foliage and a distinctive "bubbling chocolate" bark that distinguishes it from its closest relatives, such as the Norfolk Island, Hoop, and Monkey Puzzle pines.

In about two years, the Garden plans to move some of the trees from the greenhouse to the Climatron conservatory, where they should thrive in the humid warmth. Others will be planted outside to test their cold-hardiness.

PHOTOS BY LYNN KERKEMEYER, TIM PARKER, AND COURTESY GATEWAY GREENING

## Signature Garden Dedication

On May 13, representatives of Southwest Illinois Community College (SWIC) dedicated three Missouri Botanical Garden "signature gardens" on the campus. Dr. Elmer Kirchoff, president of SWIC, presented Garden Director Dr. Peter Raven with an original ceramic sculpture by artist Susan Bostwick. The college will display a similar piece in the signature gardens. Part of the Garden's "Shaw's Garden East" outreach effort spearheaded by emeritus trustee Ralph Korte, the signature gardens program encourages institutions to install environmentally appropriate gardens and maintain them to a rigorous standard.

*From left: Elmer Kirchoff, Susan Bostwick, and Peter Raven.*

## Rosarian Retires

On May 26, rosarian Diane Brueckman attended her last Rose Evening as an employee of the Missouri Botanical Garden and was sent off with a standing ovation to a retirement that includes caring for over 100 roses of her own.

For nine and a half years, Brueckman has overseen the selection, planting, and care of the 2,500-plus roses for the Lehmann and Gladney gardens. The Garden receives 10 to 40 All-American Rose Selections (AARS) each year for testing and evaluation for commercial development. As rosarian, Brueckman served as AARS judge, a capacity she will maintain until a new judge can be trained.

She will be succeeded by her apprentice of the last year, horticulturist Sarah Anderson.

## Urban Beautification Award

On April 14, Gateway Greening was awarded the 2005 Urban Beautification Award by the American Horticultural Society. Granted to "true horticultural heroes," the award celebrates the recent study, undertaken with the University of Missouri–St. Louis, demonstrating the positive economic and social impact of community gardens.

Gateway Greening helps transform neglected and abandoned lots in St. Louis into productive gardens and beautiful landscaped areas. The organization currently supports 160 gardens maintained by nearly 3,000 community gardeners.

*Pictured: Arabella Dane, Chair, American Horticultural Society; Gwenne Hayes-Stewart, Executive Director Gateway Greening; and Katy Moss Warner, President, American Horticultural Society.*

# EVENTS

PHOTO BY JOSH MONKEN, DIANE WILSON, AND KEVIN WOLF

## Whitaker Music Festival

The 11th annual Whitaker Music Festival continues every Wednesday in July. Visitors are encouraged to pack a picnic and enjoy the music anywhere throughout the Garden. Because of the Children's Garden construction, this year's stage is on the Linnean House lawn and seating is limited. Free concerts begin at 7 p.m., free admission after 5 p.m. In case of rain, check the Garden's website (www.mobot.org) for cancellation information or tune into RED 104.1 FM for announcements.

*These concerts are supported by a generous grant from the Whitaker Foundation, which supports the arts and parks in St. Louis to promote common heritage, while celebrating diversity and encouraging the vitality of the community.*

## July

6 Augusta Bottoms Consort, acoustic Missouri music

13 Sandy Weltman, harmonica master

20 Fairchild, one of St. Louis' best-loved hometown bands

27 Billy Peek, legendary St. Louis rock-and-roller

*Whitaker Music Festival*
*Wednesdays, now through July 27 • Concerts start at 7 p.m.*
*Linnean House lawn • Free after 5 p.m.*

## Happy Birthday, Henry!

*Sunday, July 24, 10 a.m. to 3 p.m.*

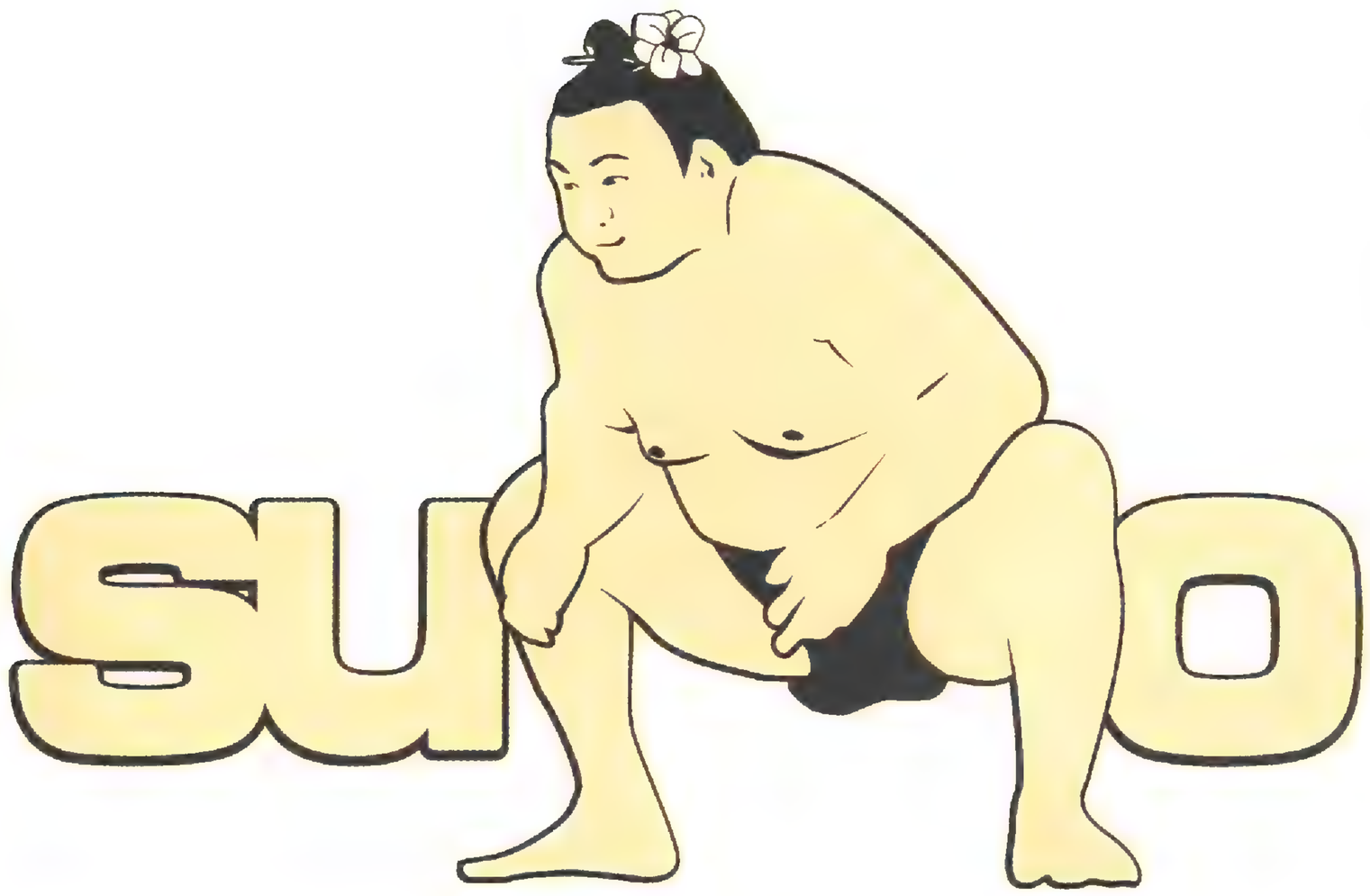
In honor of Garden founder Henry Shaw's 205th birthday, admission to the Garden is free all day. Enjoy old-fashioned entertainment, including an organ grinder, silhouette artist, stilt walker, and birthday refreshments.

Also in honor of Henry Shaw's birthday, the Great Rivers Greenway District, the Missouri Botanical Garden, Tower Grove Park, and Trailnet are hosting Petal Pedal, a free bicycle ride through Tower Grove Park for all ages. Register from 10 to 11:30 a.m. in the Garden's east parking lot. Group tours will leave every half-hour. Bring your bike (no training wheels), and helmets are required. See www.trailnet.org for more details.

## Best Homegrown Tomato Challenge

*Saturday, July 30, 10 a.m. to noon*

Do your tomatoes routinely produce oohs and aahs of wonder from the neighbors? Then you might want to enter the second annual NatureSweet Best Homegrown Tomato Challenge at the Missouri Botanical Garden. Entrants compete for a $5,000 grand prize, determined by a panel of judges. Entry forms are available after July 5 at local Schnucks, Dierbergs, and Shop 'n Save stores. Registration begins at 10 a.m.; judging at 11:30 a.m. Linnean House lawn. Garden admission is free before noon to anyone who brings three tomatoes or 12 cherry tomatoes (of the same type) to enter in the contest.




## Japanese Festival

It's big. It's huge. It's a colossal turn of events, as Japanese Festival hosts, for the first time, SUMO! First recorded in writing circa A.D. 712, this ancient form of wrestling steeped in Shinto tradition is rarely seen in live performance outside Japan. Don't miss this once-in-a-lifetime visit to the Midwest by these gigantic gladiators. Also at this year's festival: taiko drumming, tea ceremonies, anime screenings, the Candyman, and candlelight tours of the Japanese Garden. For full details, check out the Garden's website (www.mobot.org), where the complete schedule will be available in August.

*Japanese Festival*
*Saturday–Monday September 3–5*
*$10 for adults 13-64 ($7 seniors 65+),*
*$3 for members and children 12 and under*

# FOR MEMBERS ONLY...

## Antique Appraisal

*Friday, July 8, 11 a.m. to 1 p.m.*

Back by popular demand, it's your chance to find out if that family heirloom is a treasure, when experts from Ivey-Selkirk provide verbal appraisals. Two items per person, please. For further information call Brenda Zanola at (314) 577-0879 or e-mail brenda.zanola@mobot.org.

## Christmas in July Children's Tea

*Tuesday, July 12, 1 p.m.*

Bring your child or grandchild and join us for a fun-filled tea party! Kids make a holiday craft and enjoy refreshments and storytelling. Guests receive a 20% discount coupon for the Garden Gate Shop and a free tram ride ticket. Sponsored by the Tower Grove House Auxiliary. Tickets are $12 per person. Call (314) 577-5154 for reservations by Wednesday, July 6.

## Shade Gardening

*Friday, August 26, 11 a.m.*

Turn that shady spot into a cool oasis on a hot summer day! Cindy Gilberg of Gilberg Perennial Farms will feature all the new varieties of shade-loving plants, along with a discussion of the old favorites.

PHOTO BY KEVIN WOLF

## Thank You!

Thank you to everyone who made our St. Louis Garden Tour 2005 such a huge success, especially co-chairs Carol Squires, Ann Bowen, and Sally Cohn (*above, from left*). Thanks to the Friends of the St. Louis Garden Tour: Ann and Steve Bowen; Deborah and Robert Dolgin; Helen and William Gilbert; Mary and Tom Ott; Terrie and Arnie Robbins; and Jane and Bob Tschudy.

*The St. Louis Garden Tour 2005 was sponsored by: Bayer's Garden Shop Inc.; the Bug Store; Gringo Jones; Hummert International; Passiglia's Nursery and Garden Center; Sugar Creek Gardens; Summer Winds—Timber Creek Nursery and TLC Garden Center; and Trees, Forests and Landscapes, Inc.*

# GARDEN AT LARGE

## EARTHWAYS CENTER

### Green Roofs for Green Water and Energy Savings

Scandinavians through the ages—and some settlers in this country's pioneering era—knew the benefits of growing plants up on the housetop. Green-roof buildings were warmer in winter, cooler in summer, and nibbling livestock kept the roofscape trim.

Minus the goats, green roofs are growing again in popularity and usefulness. Kelly Luckett, owner of Saint Louis Metalworks Company, has combined his roofing and metal fabrication expertise with green-building zeal to develop patented Green Roof Blocks. These self-contained, portable, sheet-metal boxes simplify the process of creating a vegetative roof on any standard flat roof surface. Luckett works in partnership with Vic Jost, owner of Jost Greenhouse, who tests the green-roof performance of multiple varieties of sedum, a low-growing, drought-tolerant succulent, and other types of perennials.

A Green Roof Blocks roof was installed last year on a pavilion at the Garden's EarthWays Center to educate visitors about this ancient building amenity and to provide data for modern-day pioneers rediscovering this technology.

PHOTO BY JEAN PONZI

*EarthWays Center visitors learn about renewable energy production shaded by the Green Roof Pavilion.*

"Green roofs save energy by superinsulating building surfaces that are normally subject to extreme temperature changes," says Deborah Chollet Frank, EarthWays Center director. "The plantings absorb and slowly release storm water, minimizing runoff, and they filter out pollutants from water and air."

Imagine summer in St. Louis as a cool, green island—up on the roof!

Visit www.earthwayscenter.org to learn more about green roofs, or tour the EarthWays Center (see Calendar).


3617 Grandel Square
St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org


*EarthWays Center is a division of the Garden that teaches people of all ages about practical ways to conserve natural resources, reduce waste and prevent pollution – at home, at school, and in the workplace.*

## SHAW NATURE RESERVE

### Get Refreshed!

*by James Trager, Ph.D., restoration biologist*

PHOTO BY SCOTT WOODBURY

As we approach the dog days of summer, rather than holing up in the air-conditioning, why not be physically and mentally refreshed by a visit to the Shaw Nature Reserve wetlands? Covering 32 acres, this system of ponds remains cooler even when the prairie is baking. Just follow the half-mile trail to the 300-foot boardwalk through the rich and swampy woods, then stroll out onto the water lily-studded ponds and you may see many of the following highlights:

Pondlife: amphibians (salamanders, toads, and smaller frogs) and aquatic insects, and the fish and bullfrogs that prey on them.

Birds: see a variety of sparrows, indigo buntings, northern yellowthroats, blue-winged warblers, orchard and Baltimore orioles, bluebirds, and various woodpeckers from the Wetland Trail. Wading birds, such as great and little blue herons, occasionally forage there too.

Beautiful native plants: The wet meadow and pond edges are home to numerous rare sedge and wetland grass species, and broadleaf beauties such as blue flag iris, queen of the prairie, bunch lily, blue bottle gentian, and three members of the parsley family which require "wet feet": water parsnip, water hemlock, and cowbane. The swamp forest hosts maturing plantings of bald cypress, water tupelo, and overcup oak, with an understory of corkwood, swamp loosestrife (the native one, of course!), and two species of hibiscus, underlain by carpets of lizardtail, water pepper, pickerelweed, and copper iris.

Be sure to visit the wetlands this summer and hear the insects "singing" on the prairie!

### For Teachers: A Day on the Prairie Workshop

Saturday, September 24, 9 a.m. to 4 p.m.

This one-day workshop for educators of grades K–12 incorporates prairie ecology, cultural diversity, and literature into a science curriculum. Choose from sessions including medicinal plants, nature journaling, field investigations, humans on the prairie, seed dispersal, prairie birds, and insect diversity. Take away educational materials, door prizes, and lots of new ideas. Offered by the Missouri Botanical Garden and the Missouri Department of Conservation. Fee: $20 (includes lunch). Spaces are limited, and advanced registration is required. Please call (314) 577-9506.

*Shaw Nature Reserve*
*Hwy. 100 & 44 (exit 253)*
*Gray Summit, MO 63039*
*(636) 451-3512*
*www.shawnature.org*

PHOTO BY KEVIN WOLF

Butterfly House
15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

# SOPHIA M. SACHS BUTTERFLY HOUSE

## Butterflies and MORE

A first-time visitor to the Sophia M. Sachs Butterfly House might be surprised to see the variety of invertebrates crawling the walls of displays in the Grand Hall. As part of a mission of conservation and environmental education, the Butterfly House frequently shows off butterflies, yes, but also other, equally charismatic spineless species. Soon there will be more of these burgeoning beasties to love.

The newly opened permanent exhibit "Discovering a Small World" features 11 exhibits of your favorite invertebrates, including roaches and millipedes. Learn how insects are vital for the survival of many animal species, including humans. Also in the works, another permanent exhibit to display a variety of arachnids. Look for exciting developments later this year.

## BUTTERFLY HOUSE TRIBUTES

*For information on making a gift to the Butterfly House Tribute Fund, please call (314) 577-0297.*

*in honor of*

**Bonnie Hamid**
The Good Earth Garden Club of Eureka

**Mr. Edward Schreiber**
Ms. Helen Van Derhyden

**Dr. William Smiley**
Mr. and Mrs. Harold Sher

**Mr. James D. Trovato**
Ms. Helen Van Derhyden

**Ms. Barbara Zucaro**
Mrs. Jeanette Glad

## BUTTERFLY HOUSE PAVERS

*Butterfly House pavers are a great way to recognize graduations, weddings, birthdays, holidays, and memorials. For information, call the Development Office at (314) 577-0297.*

**Kate Chalcraft**
Donna, Tim, Matt and Maurie

**Elizabeth Danforth**
Ralph Quatrano and the Washington University Biology Department

**Jacqueline Martinez**
Christine Williams

**Macy, Kendall, Brad and Brooke Morley**
Cathy and Mark Morley

**Eric and Connie Worley**
Connie Worley

*Tributes and Pavers donated to the Butterfly House from March to April 2005.*

## Events

### Members' Days

*Tuesday, July 19, and Thursday July 21, 9 a.m. to 5 p.m.*
Garden members receive free admission to the Butterfly House all day and are invited to a 10 a.m. presentation by Phillip Stutz, Horticultural Programs Manager for the Butterfly House, who will discuss ways to attract native butterflies to your home landscape. A guided tour of the outdoor Butterfly Garden follows at 11 a.m.

### Bug Hunt Challenge

*Saturday, July 30, 2 p.m.*
The Butterfly House has been challenged by other butterfly houses and zoos across the United States to see who can collect the most insects. Collecting sessions take place at 11 a.m., 12:30 p.m., and 2 p.m. Join in on other activities and crafts from 11 a.m. to 2 p.m. Included with general admission.

## Education

### For Teachers: Spectacular Spineless Species Workshop

*Tuesday–Wednesday, July 12–13, 8:30 a.m. to 4 p.m.*
Recommended for teachers of preschool to second grade, this conference will focus on the "spectacular spineless species" and effective, fun methods for teaching. Fee: $40 per person. Optional college credit available. To register, call (636) 630-0076, ext. 13

### Camp Bug-a-loo

Don't miss the Butterfly House's inventive preschool program for children ages 2–5 (with an adult). Each one-hour, nature-themed class is packed with science, imaginative play, music, arts and crafts, storytelling, math, and more. Fee: $13 ($9 for Garden members) for one child and one adult. Advance registration is required. Upcoming classes: Flowers—Sprouts and Seeds, and Water—Bubbles and Splashes. For dates, times, and registrations, please call (636) 530-0076, ext. 13. Please note: classes for ages 2–3 are SOLD OUT. Register now for ages 4–5.

### BUZZ: Pinning

*Saturday, August 13, 2 to 3:30 p.m.*
Buzz is a series of classes for school-age children (with an adult). In Pinning, students will learn one of the entomologist's most important skills: how to mount butterflies and other insects for display. All materials provided. Students 8 years and up. Limited to 20 participants. Fee: $13 ($9 for Garden members) for one child and one adult. Advance registration is required. Please call (636) 530-0076, ext. 10.

## Visions in the Prairie

photography by
Henry Domke
July 5 through
August 26
Ridgway Center

# VOLUNTEERS

PHOTOS BY ELIZABETH MCNULTY

## Volunteer Appreciation Evening

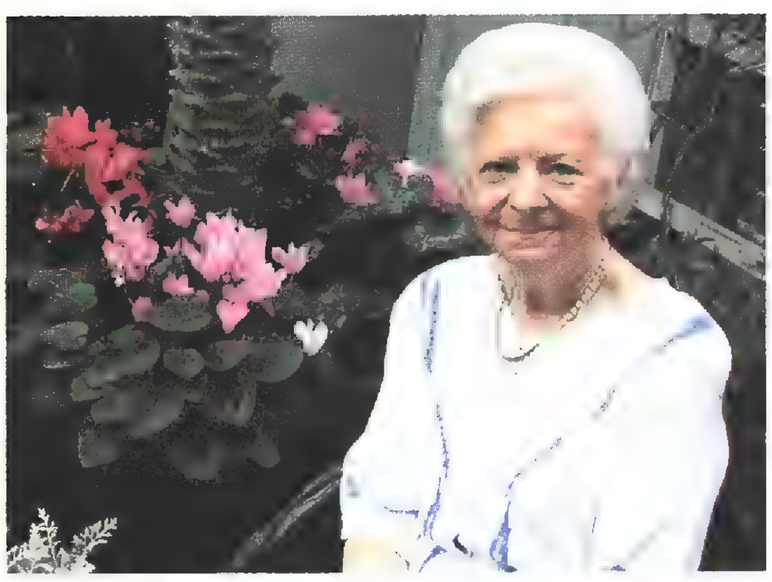
Over 1,348 volunteers contributed over 103,401 hours to the Garden in 2004—that's the equivalent labor of 53 additional full-time employees. On Tuesday, April 26, the Garden celebrated this remarkably capable volunteer work force at the annual Volunteer Appreciation Evening, where guests were honored and thanked for 10, 20, and 30 years of service. Five unique individuals were singled out for special awards: Lou Stark, Commitment; Faye Roth, Extra Service Hours; Leon Zickric, Special Achievement; Parkway West High School, Organization; and Aileen Bunton, Lifetime Achievement. The Garden is deeply grateful to these special award recipients, and to the whole volunteer corps. Thanks for another great year!

*From left: Leon Zickrick, Aileen Bunton, Peter Raven, Shannon Fuller, Faye Roth, Lou Stark, Amelia Gant, Amy Cohen.*

## Volunteers Needed

Whether you're a retired teacher or an active gardener, whether you like kids or not, the Garden's family of attractions has the right volunteer opportunity for you. Call for information on these options and many more, call Jackie Juras at (314) 577-5187.

- Work outdoors at the Litzsinger Road Ecology Center in Ladue! Lead school children in outdoor nature investigations, or assist staff with native planting and site preservation.
- Do you know horticulture, entomology, or plant pathology? Share your expertise as a Kemper Center for Home Gardening plant doctor. Keep office hours, or just be "on call" for tough challenges.
- Are you a teacher living in Franklin County? Volunteer as a Teacher Naturalist at the Shaw Nature Reserve in Gray Summit. Get out of the classroom and back to nature.



## Woman of Achievement

In April, long-time friend of the Garden Jean Crowder was named one of the St. Louis *Suburban Journal's* 2005 Women of Achievement, an award bestowed on only 10 women each year. For over three decades, Crowder has been a dedicated Garden volunteer, working on projects as far-ranging as the members' board, the membership services desk, the Best of Missouri Market, and Tower Grove House. In her leadership role for the Tower Grove Auxiliary, Crowder raised more than $100,000 for historical renovations. Congratulations, Jean!

## St. Louis Volunteer Director of the Year

If you're a volunteer, you probably know her as "Jackie." In May, the Garden's manager of the Volunteer Program was named 2005 Volunteer Director of the Year by the St. Louis Council of Directors of Volunteer Services. An employee of the Garden since 1997, Jackie Juras has overseen the volunteers since 2002. She was singled out for her warmth, dedication, and excellent organizational skills in tracking such a large group (almost 1,400 people!) performing such a wide variety of tasks (from digging in the dirt to instructing classes to mounting plant specimens). Congratulations, Jackie!

PHOTOS BY EMILY SNIDER, KEVIN WOLF, AND COURTESY THE GARDEN DOCENTS

## Garden Docents

In April, the Garden docents approved a new slate of officers. From left: Leslie Clark, scheduler; Francine Boillat, secretary/treasurer; and Betty Smith and Sandy Sher, co-chairs.

Garden docents lead thematic walking tours of the Garden for all ages. To become a docent, candidates must attend five six-hour training sessions before beginning tours, and another 15 classes once actively giving tours. Interested persons are invited to submit their names now so they can learn more before the October training. For more information, call Rebecca Young at (314) 577-9549.

PHOTO BY CHARLES SCHMIDT

## FROM THE WILLIAM T. KEMPER CENTER FOR HOME GARDENING...

# WHAT TO DO IN THE GARDEN THIS MONTH

*For additional information on plant care and gardening:*

- *visit the Kemper Center for Home Gardening*
- *call the Horticultural Answer Service, Monday through Saturday, 9 a.m. to noon, at (314) 577-5143*
- *check out the Gardening Help section at www.mobot.org*

## July

### All month

- Deadhead spent perennials and annuals. Remove infected leaves from roses. Pick up fallen leaves. Continue fungicidal sprays as needed. Fertilize container plants every 2 weeks with a water-soluble solution.
- Newly planted trees and shrubs should continue to be watered thoroughly, once a week.
- Water when soils begin to dry and maintain a 2–3 inch layer of mulch around tomatoes and peppers to prevent blossom-end rot.
- Cover grape clusters loosely with paper sacks to provide some protection from marauding birds.
- Water grass deeply at least once a week. Early morning irrigation allows turf to dry before nightfall and will reduce the chance of disease.

### Week 1

- Apply no fertilizers to trees and shrubs after July 4. Fertilizing late may cause lush growth that is apt to winter kill.
- Hot, dry weather is ideal for spider mite development. Look for leaves speckled above and yellow below and evergreen needles that appear dull gray-green to yellow or brown.
- To minimize insect damage to squash and cucumber plants, cover them with lightweight floating row covers. Remove covers once plants flower.
- Prune out and destroy old fruiting canes of raspberries after harvest is complete. Blackberries are ripening now.

### Week 2

- Prune climbing roses and rambler roses after bloom. Plant zinnia seed by July 4th for late bloom in annual border.
- Dig potatoes when the tops die. Plant fall potatoes by the 15th.

### Week 3

- Powdery mildew is unsightly on lilacs, but rarely harmful. Shrubs grown in full sun are less prone to this disease. Cut semi-hardwood of spring flowering shrubs now. Summer pruning of shade trees can be done now.
- Harvest onions and garlic when the tops turn brown. Keep cucumbers well watered. Drought conditions will cause bitterness. Sweet corn is ripe when the silks turn brown.
- Monitor lawns for newly hatched white grubs. If damage is occurring, apply appropriate controls, following product.

### Week 4

- Divide bearded iris now.
- For the fall garden, sow seeds of collards, kale, sweet corn, and summer squash as earlier crops are harvested. Sow seeds of carrots, beets, turnips, and winter radish for fall harvest.
- Early peach varieties and thornless blackberries ripen now.

## August

### All month

- Deadhead annuals and perennials as needed. Continue spraying roses that are susceptible to black spot and other fungus diseases. Annuals may appear leggy and worn now. These can be cut back hard and fertilized to produce a new flush of bloom.
- Compost or till under residues from harvested crops. Watch for fall webworm activity now.
- Prop up branches of fruit trees that are threatening to break under the weight of a heavy crop.

### Week 1

- Feed mums, asters, and other fall-blooming perennials for the last time. Roses should receive no further nitrogen fertilizer after August 15.

- Divide bearded iris now. Discard old center sections, and borer damaged parts. Replant so tops of rhizomes are just above ground level.
- Prune hedges to shape for the last time this season.
- Broccoli, cabbage, and cauliflower transplants should be set out now for the fall garden.

## Week 2

- If you want to grow big dahlia flowers, keep side shoots pinched off and plants watered and fertilized regularly.
- Evergreens can be planted or transplanted now to ensure good rooting before winter arrives. Water both the plant and the planting site several days before moving.
- Cure onions in a warm, dry place for two weeks before storing. Sow seeds of beans, beets, spinach, and turnips now for the fall garden. Spinach may germinate better if seeds are refrigerated for one week before planting.
- Protect ripening fruits from birds by covering plants with netting. Fall-bearing red raspberries are ripening now.
- Apply insecticides now for grub control on lawns being damaged by their activity. Zoysia lawns can receive their final fertilizer application now.

## Week 3

- Begin planting lettuce and radishes for fall now.
- Watch for fall webworm activity.
- Cultivate strawberries.
- Lawns scheduled for renovation this fall should be killed now. Have soil tested to determine fertility needs.

## Week 4

- Dormant lawns should be soaked now to encourage strong fall growth. Verify control of lawn white grubs from earlier insecticide applications.

# FEATURED PLANT OF MERIT

PHOTO BY ALAN STENTZ

## Prairie Dropseed

*Sporobolus heterolepis*

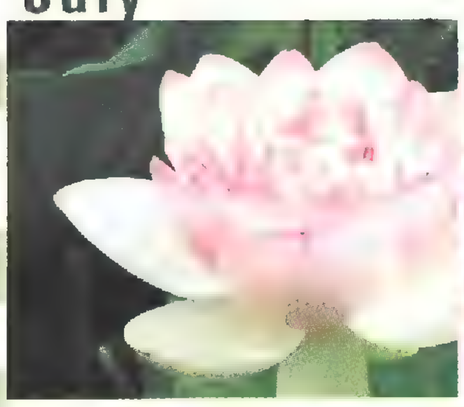
Clump-forming, Missouri native, prairie grass. Medium-green leaves are fine-textured, hair-like, and grow in mounds to 15 inches tall. Foliage turns copper-gold in fall, gradually fading to light beige by winter. Late summer flowers are noted for their coriander-like fragrance. Grows exceedingly well in prairie areas and drops its ripe seed directly to the ground. Spectacular accent or groundcover.

*Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org*

# PLANTS IN BLOOM

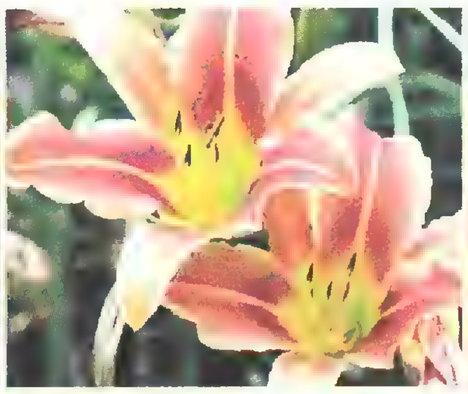
for a complete list of plants in bloom go to www.mobot.org

## July



*Sacred Lotus in the Japanese Garden*

*Foxgloves in the Kemper Center*



*Daylily Garden*

*Begonias in the Boxwood Garden*

*Gladiolus in the Bulb Garden*

## August

*Sunflowers in the Kemper Center*

*Dahlias in the Bulb Garden*

*Water lilies in the Milles Sculpture Pools*

*Oleander in the Temperate House*

*Hydrangea in the English Woodland Garden*

*The Garden's turf crew mows 30 acres of grass, 40 times per year, that's 2,300 miles of mowing!*

# EARTH-FRIENDLY LAWN CARE

*by Steven D. Cline, Ph.D., manager of the Kemper Center for Home Gardening*

For many homeowners, turfgrass is a necessary evil. However, a lawn has a number of desirable characteristics that include environmental cooling, erosion control, and recreational use. I try to remind myself of these while I'm pushing the mower every week during the summer.

I'm fairly typical when it comes to lawn care: I want it to look nice without being high maintenance. I mow on Saturday and water during the week in hot weather. I fertilize in the spring and fall and watch for evidence of grubs and foliar diseases. Because I don't want to spend that much time on my lawn, I look for easy maintenance techniques that do not sacrifice the health and quality of the turf.

St. Louis lies in a north-south climatic transition zone presenting potential for both cold and hot temperature extremes. As a result, we can plant two types of grasses: cool or warm season. The cool season grasses include blue-grass, fescue, and ryegrass. The warm season grasses include zoysia and infrequently, the dreaded Bermuda grass, which is now known to be extremely invasive.

Cool season turfgrasses have two periods of active growth, in the spring (April/May) and in the fall (September/October). Warm season grasses have one growth period in the summer when it is hot (July/August). Unfortunately these two types of grasses should not be mixed in one lawn! Turf-type tall fescue is a popular, all-purpose grass most recommended for St. Louis lawns. The new, improved varieties have a finer texture and can withstand a hot summer and moderate drought. Although the long dormancy of zoysia can be an issue, it is even more environmental with reduced fertilization needs and more drought resistance than its cool season cousins.

Turfgrass leaf blades live naturally only 25 to 49 days, while their roots have a life of 42 to 60 days. In reality, your lawn is dying before your eyes. However, a healthy lawn grows faster than individual grass plants die off, so you do not really notice dying grass until something upsets the balance, like drought or pests. To keep your lawn green, you need to encourage the formation of more grass plants. There are several easy ways to do this and stay environmentally sensitive.

## Mowing

Mowing causes turfgrass plants to grow horizontally by putting out rhizomes that initiate new plants or tillers, promoting a thicker lawn. Be careful to remove no more than one-third of the green leaf area per mowing. Cutting grass too short forces the plants to grow more quickly to replace lost tissue, weakening the roots and leaving the plants more susceptible to disease, drought, and insects. During hot periods of midsummer, raise the mower to its maximum height. This is the single most important practice to managing lawns in our climate.

## Dethatching

Dethatching, or use of a vertical mower, cuts the rhizomes or stolons that connect mother plants to juvenile plants, again stimulating formation of a thicker lawn. Whether cool- or warm-season grass, it is desirable to dethatch your lawn when the thatch approaches one-half inch in thickness. For bluegrass, fescue, and ryegrass, dethatch in August every 3–5 years. For zoysia, dethatch in May every third year.

## Watering

Every lawn needs some water sometime, especially in a hot St. Louis summer! Good news for lazy gardeners: the best way to water is infrequently and deep. Thus once a week should be plenty, but place a tuna can in the lawn to make sure you're watering at least 1½ inches deep. The goal is to increase deep rooting so that plants are in better shape to pull water from below when drought conditions prevail.

## Clippings

It was once widely believed that grass clippings left on the lawn would cause "thatch." Thatch is composed mostly of dead roots, crowns, and shoots, which do not decompose quickly. Thatch build-up is not desirable, of course, because it prevents water penetration, harbors insects and diseases, and makes turf more susceptible to drought and insects. However, leaf clippings actually contribute very little to thatch buildup in lawns; in fact, they are an excellent fertilizer, providing as much as 25% of the Nitrogen demand if left in place.

Because yard waste constitutes 20 percent of landfill, many communities have passed ordinances banning yard waste dumping. The good news is that changing our ways requires no great sacrifice. You will save time and money, your lawn can still look great, and you will be recycling materials back into the ecosystem, if you just leave the clippings on the lawn. Frequent mowing produces short clippings that break down even faster. Mow twice a week during the maximum growth period.

## Fertilizer

If clippings are left on the lawn after mowing, only a minimum of additional fertilizer is needed. For cool season grasses, a light May application (one quarter to one half pound of nitrogen per 1,000 square feet) and a heavier September application (one to one-and-a-half pounds of nitrogen per 1,000 square feet) is sufficient. Warm season grasses like zoysia will do fine with a single application of one pound per 1,000 square feet in late May to early June. This is close to their optimum growth period in July. Organic fertilizers are widely available on the market and promise not to burn your lawn or hurt pets or children. Apply these six weeks before the optimum growth period since they may take this time to decompose and supply nutrients to a hungry lawn.

The Missouri Botanical Garden has been leaving grass clippings on the lawns for many years. We find that this works well for most of the areas in the Garden. Where grass clippings may work their way back into buildings, they are collected and added to the compost pile for recycling.

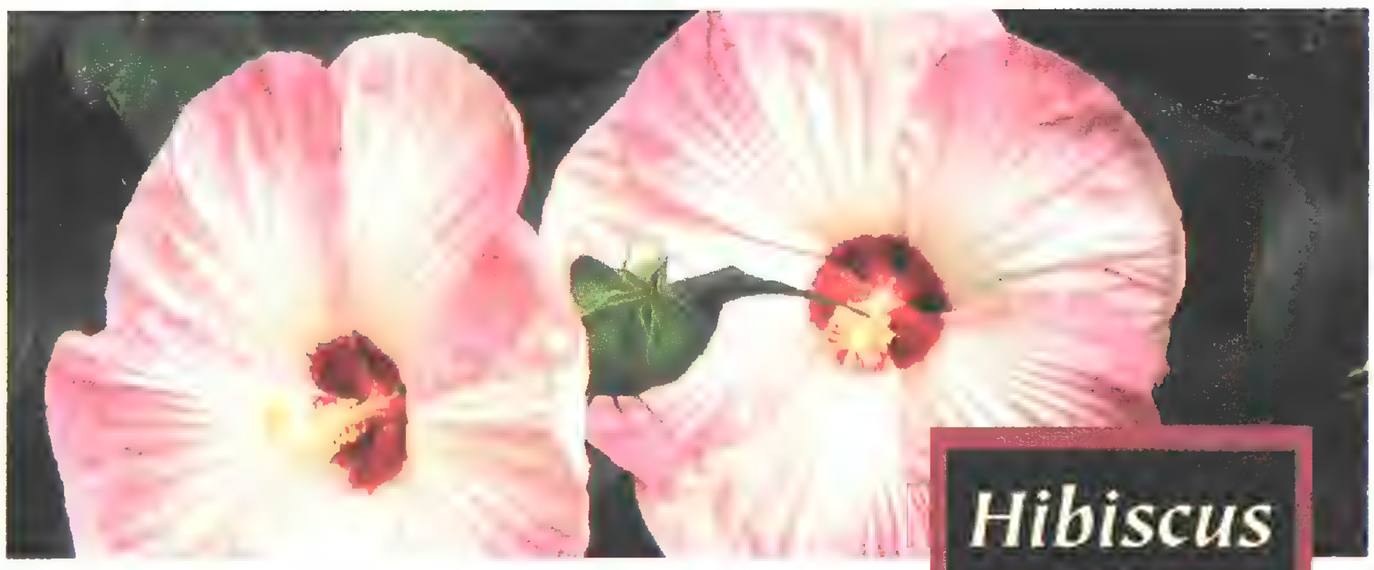
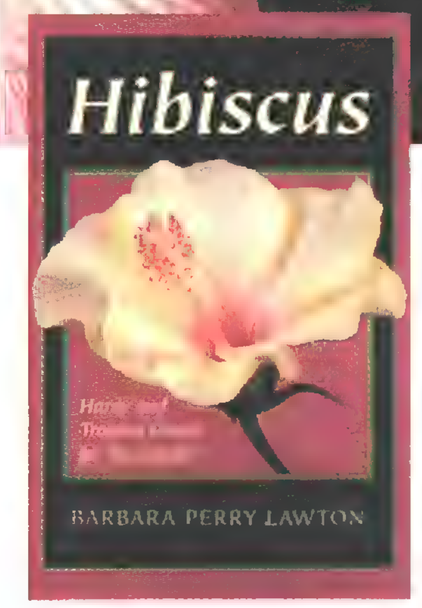


PHOTO BY JACK JENNINGS




# HIBISCUS

*by Barbara Perry Lawton*

Long-time readers of the *Bulletin* may remember the name: Barbara Perry Lawton. She was the Garden's manager of publications and editor of the *Bulletin* from 1967 to 1972. "We were basement dwellers in those days," she recounts, laughing. "Our offices were in the basement of the Museum Building, then later the basement of Tower Grove House." Lawton went on to author a gardening column for the *St. Louis Post-Dispatch*, and has today written several books, the most recent of which is *Hibiscus* (2004) for Timber Press.

So why hibiscus? "Once established, the hardy hibiscus is as tough a plant as you can find," Lawton says. "Add to that the beauty of the flowers. This is a plant that you can invest a little bit of time and money and watch it thrive!" Covering both tropical and hardy varieties, the book is an entertaining mix of straightforward horticultural science—propagation, troubleshooting, planting, and care are all deftly covered—with history and lore. Lawton traces medical applications throughout the world, history as seen in manuscript and object illustrations, as well as fun facts, such as the ancient Egyptian ban on hibiscus tea for women because of its purported aphrodisiac power. Consider that with your next cup of Red Zinger!

*Hibiscus* by Barbara Perry Lawton is available now in the Garden Gate Shop. Pick up your copy today.

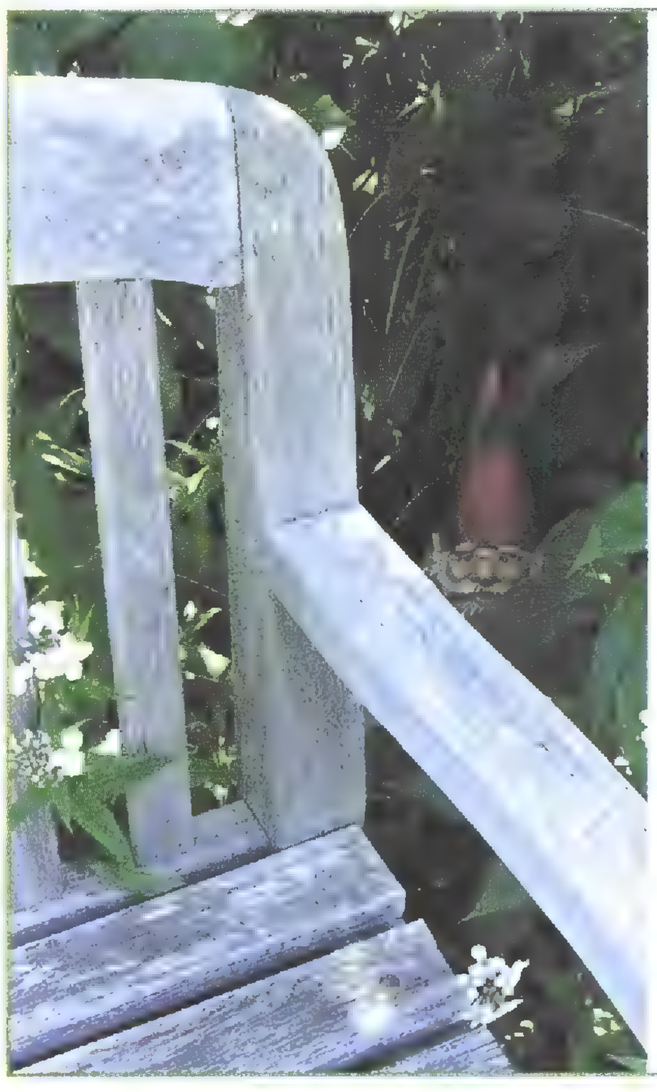


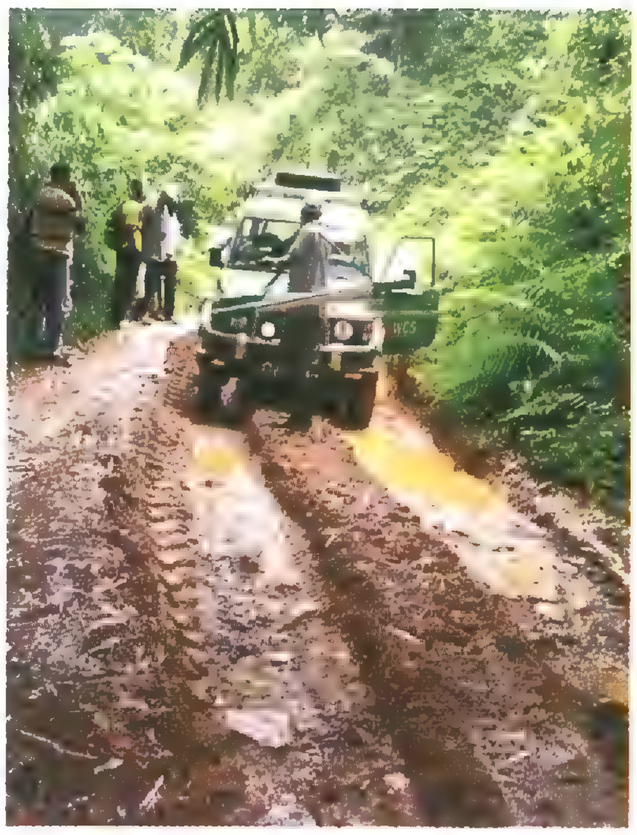
PHOTO BY JUSTIN VISNESKY

## Gnome Stops to Smell the Roses

Recent coverage in the *St. Louis Post-Dispatch* (*Lifestyle* magazine, May 21) led many visitors to discover our shy gnome hiding out in the Kemper Center for Home Gardening Fragrance Garden. Who wouldn't enjoy such a sweet location? The Fragrance Garden is planted with a full spectrum of aromatic plants, including shrub roses, honeysuckle, lilies, fringetree, magnolia, and viburnums. The gnome probably also enjoyed the warm garden "room" created by an evergreen hedge and bordering brick walls, which help contain the fragrance, but apparently he loves his privacy more, since he's already pulled up stakes to head out for a new location.

# GABON

In a hammock for the night on the edge of Loango National Park, Missouri Botanical Garden researcher Gretchen Walters was narrowly missed by a young bull elephant crashing through the forest in search of a midnight snack of Sacoglottis fruits. "The wind was blowing the wrong way, so he couldn't smell us," says Walters nonchalantly. All in a day's work for botanists collecting plant specimens in Gabon!



On the western coast of equatorial Africa, Gabon, at 257,667 square kilometers, is roughly the size of Colorado, yet contains more than 5,000 plant species. Despite booming timber exports and oil production, 70 percent of the original rain forest remains intact, stretching across the Congo, leading former MBG student researcher Michael Fay, now of the Wildlife Conservation Society, to proclaim it the "last wild place on Earth."

Fay's famed "Megatransect," a 2,000-mile walk across the forest to document plant and animal species, was well documented in the pages of *National Geographic*. Inspired by Fay's journey, and the international attention it accrued, Gabon established 13 national parks in 2002, preserving 10 percent of the country's wilderness. Missouri Botanical Garden researchers have been studying the region for almost 20 years, adding valuable data on plant species to the information on birds, elephants, and gorillas to help set conservation priorities. However, the flora of Gabon is still considered very poorly known.

Today, as part of the William L. Brown Center for Plant Genetic Resources, two MBG botanists focus on Central Africa full-time: Miguel Leal, who lives in Gabon, and Gretchen Walters, who splits her time between Gabon and St. Louis.

As an oil-based economy, and former French colony, Gabon imports most goods, resulting in additional challenges for these researchers on a shoestring budget. The capital Libreville, for example, is among the most expensive cities in the world, alongside Paris and Tokyo. Out in the forest, though, it's a different story, with lack of roads and other amenities the norm.

Reaching field stations, such as the one where Walter's brush with the elephant took place, is not easy. A typical journey might entail five hours in a Land Rover, a half-mile portage, and an additional three hours by boat upriver. The remoteness of these sites is perfect for plant exploration, and already early collections in the areas are yielding new species.

A recent U.S. Agency for International Development grant allows the Garden, in conjunction with the National Herbaria of Gabon and Equatorial Guinea, the Wildlife Conservation Society, Conservation International, and the Smithsonian Institution, to expand research throughout Gabon and neighboring Equatorial Guinea, while building capacity and knowledge infrastructure with local collaborators.

PHOTOS COURTESY GRETCHEN WALTERS

*Left: a forest waterfall in Gabon, where an estimated 70 percent of the rain forest remains intact. From top: difficult roads to remote places, MBG Central Africa specialists Miguel Leal (center) and Gretchen Walters in the field with their local collaborators.*

# TRIBUTES March–April 2005

PHOTO BY BETH HAINES

## Tribute and Memorial Gift Program

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding tribute giving opportunities at the Garden, please call (314) 577-5118. You can also make a tribute gift online at our website, www.mobot.org.

**The Honorable John Ashcroft**
**Mrs. Mary Randolph Ballinger**
**Mrs. Joan Edwards**
**Mr. Sam Fox**
Dr. and Mrs. Nicholas Kouchoukos
Mr. and Mrs. John J. Shillington

**Mrs. Dorothy Beezley**
Frances and Angel Beezley

**Mrs. Ruth Bettman**
Mrs. Suzy Seldin

**Dr. Michael F. Boland**
Mr. John W. Kourik

**Mr. Bob Brinkman**
Miss Wanda M. Bowers

**Ms. Grace Brod**
Mr. and Mrs. Ronald Pass

**Mrs. Ann Case**
Rowena Clarke Garden Club

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**Mr. Robert Eigenrauch**
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**Miss Carolyn Hackman**
Miss Shirley Stoecker

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Mr. John W. Kourik

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Mrs. Suzy Seldin

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Chuck and Linda Miller

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Mr. and Mrs. Steve Smith

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# PICNIC IN STYLE!

*Summer is here! Time for a picnic! The Garden Gate Shop has everything you need! Come in and see our picnic baskets, colorful melamine plates, glasses, napkins, candles, and food items.*

## GARDEN GATE SHOP

4344 Shaw Boulevard
(314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds benefit the Garden.

## SPECIAL EVENTS

### Sales

**Jul. 8 and Aug. 26**
Members save 20% on everything at the Garden Gate Shop and the Little Shop Around the Corner

### Book Signings

**Jul. 2** Fred Buck will sign his book *Street Games—Memories of a St. Louis Childhood 50's & 60's,* *noon to 2 p.m.*

### Food Tasting *every Wednesday and Saturday, 12:30 to 3:30 p.m.*

### Trunk Shows *10 a.m. to 5 p.m.*

| | |
|---|---|
| **Jul. 1–3** | Silver Cat |
| **Jul. 9–10** | Mia Rosado |
| **Jul. 16–17** | Peggy Jacobsmeyer |
| **Jul. 23–24** | Molly Isom |
| **Jul. 30–31** | Shelly Solomon |
| **Aug. 5–7** | Silver Cat |
| **Aug. 13–14** | Nancy Helmer |
| **Aug. 20–21** | Doug Corley with insects and fossils |
| **Aug. 27–28** | Front & Center |

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**Mr. Maurice Hart**
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Mr. and Mrs. Larry Shoults

**Mrs. Nell Hertel**
Ms. Lynn Stupp

**Virginia Hesse**
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**Mrs. A. S. Hill**
Mr. and Mrs. Richard Shepard

**Mrs. Marianne Hill**
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Mr. and Mrs. Marshall Alley
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**Mr. Francis H. Phelan**
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**Mrs. Karen Reynard**
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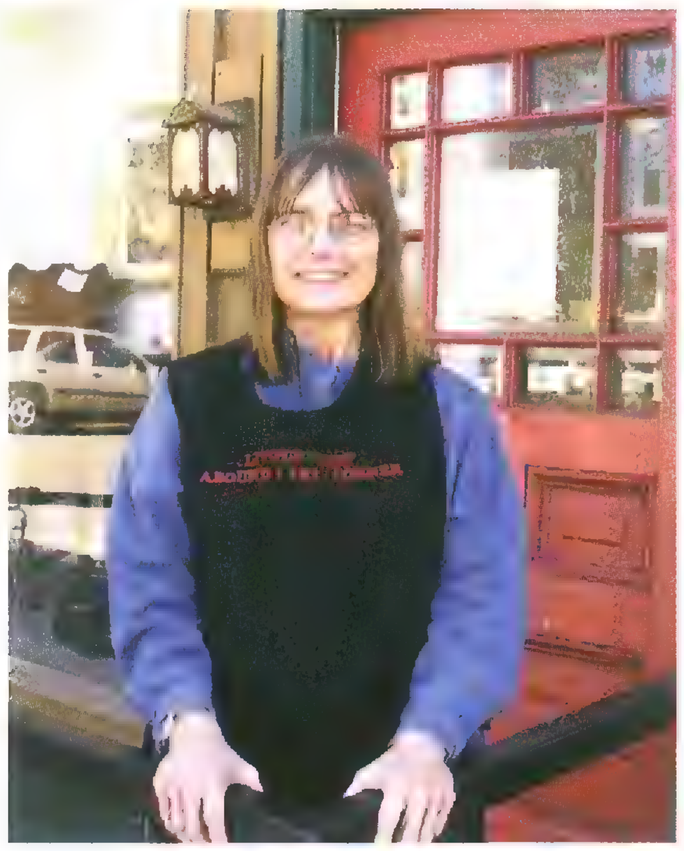
* deceased

PHOTO BY JOSH MONKEN

## Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Patricia Arnold, Director of Development, at (314) 577-5120 for further information and a complimentary brochure. Visit our informative new website at www.mobot.org. Click on Membership, then Planned Giving Guide.

PHOTO BY ELIZABETH MCNULTY



When asked how life was different growing up in a famous antiques store, Little Shop buyer Debbie Fellenz, daughter of the Fellenz Antiques family in Gaslight Square, responds with a laugh, "For starters, I was the only kid in first grade who knew the difference between cut glass and pressed glass."

Debbie would grow up to run her own shop on Cherokee for many years. Today, she works in the Little Shop Around the Corner as part of their "Connoisseur Cabinet," a panel of experts who contribute research on prices and provenance of donated items. Even after the diagnosis 15 years ago of a rare form of muscular dystrophy, Debbie refuses to slow down. "Henry Shaw gave us a great gift when he gave us the Garden. I'm hoping to give a little back."

Have an item to donate? It's just one more tax-deductible way to support the Garden! Call (314) 577-0891 today.

LITTLE SHOP AROUND THE CORNER

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## Garden of Opportunities

Attention educators: the Garden is pleased to announce the first paperless publication of the *Garden of Opportunities*. This annual catalog detailing the many options for school groups and educators at the Garden is now available for the 2005–2006 school year as a downloadable PDF on the Garden's website: www.mobot.org/education.

# MEMBERS' ENTRY COURT

*Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from March 15, 2005 through May 15, 2005.*

### bronze signature bricks

**Dick and Nancy Arnoldy**
Dick and Nancy Arnoldy

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Mr. James T. Bannon

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Mrs. Jeanne B. Buettner

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William and Mary Heidbreder

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Sherri Koehm

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Ken and Mary Jo Lensmeyer

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Anonymous

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David and Susan Rentfrow

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Mr. Stephen Robin

**Pauline and William Roller**
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Ms. Sue Slivka

**Valerie Lee Smith**
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Mr. William Stuart

**Henry and Rhoda Wichman**
Mr. and Mrs. William Wichman

**Pun Wilson**
Ms. Junko Eccles

**Patrick and Victoria Witte**
Dr. and Mrs. Patrick Witte

### engraved clay bricks

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Mr. Walter R. Beatty

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Ms. Barbara Ringwald

**Charles Edward Dunn**
Ms. Dorothy Dunn

**Ron and Mary Einwich**
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**Anna Rae Metcalf Geisler**
Harry and Joyce Meehan

**Jerry and Pat Goclan**
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**Maddie M. Lilly and Emma F. Pautler**
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Mr. James Raterman

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Mr. Aaron Finkel
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Miss Wendy Kares
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For additional information regarding the Garden's brick program, please contact Fay Orr at (314) 577-0874 or visit our website, www.mobot.org.

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# CALENDAR OF EVENTS

PHOTO COURTESY THE HENRY SHAW CACTUS SOCIETY

## Plants As Art

*Sat., Jul. 16 to Sun., Jul. 24*

See unusual specimens from the Garden's greenhouse and private collectors in this exhibit of rare and beautiful cacti and succulents displayed for their sculptural forms.

*Sponsored by the Henry Shaw Cactus Society in conjunction with their 63rd annual show and sale running concurrently. Hundreds of varieties of cactus and succulent will be available from all over the world, with society members on hand to answer questions about these easy-to-grow plants.*

## July

**Tues., Jul. 5 to Fri., Aug. 19**
Gateway Greening's Community Gardeners exhibit.

**Tues., Jul. 5 to Fri., Aug. 26**
"Visions of the Prairie Garden" photography by Henry Domke of the Prairie Garden Trust, a nature restoration project on a Central Missouri farm. See page 12 for an example. RC

**Wednesdays, Jul. 6, 13, 20, 27**
Whitaker Music Festival. See page 8.

****Fri., Jul. 8**
Members' Day: Antique Appraisal. See page 9.

****Tues., Jul. 12**
Members' Children's Tea. See page 9.

**Tues.–Wed., Jul. 12–13**
For Teachers: Spectacular Spineless Species Workshop. BH. See page 11.

**Jul. 15, 17, and 18**
Camp BUGaloo for preschoolers. BH. See page 11.

**Sat.–Sun., Jul. 16–17**
Public Tour Days at the EarthWays Center. Tours at 11 a.m., noon, 1, and 2 p.m. $2 (free for Garden members and children 12 and under). EH

****Tues., Jul. 19 and Thurs., Jul. 21**
Garden members receive free admission to the Butterfly House all day. BH. See page 11.

**Sun., Jul. 24**
Garden founder Henry Shaw's 205th birthday with "Petal Pedal" bicycle ride. See page 8.

**Sat., Jul. 30**
Best Homegrown Tomato Challenge, sponsored by NatureSweet. See page 8.

Bug Hunt Challenge. BH. See page 11.

## August

**Aug. 1, 8, and 14**
Camp BUGaloo for preschoolers. BH. See page 11.

**Wednesdays, Aug. 3, 10, 17, 24, and 31**
Enjoy a relaxing summer evening stroll at the Garden, during August evening hours until 8 p.m. with free admission after 5 p.m. for all visitors.

**Sat.–Sun., Aug. 6–7**
MBG Daylily Society sale. 9 a.m. to 5 p.m. (or until sold out). Proceeds benefit the Missouri Botanical Garden. RC

**Sun., Aug. 7**
Orchid Society of Greater St. Louis auction. Noon to 5 p.m. RC

**Sat., Aug. 13**
Greater St. Louis Daylily Society sale. 9 a.m. to 5 p.m. RC

"BUZZ: Pinning Class." BH. See page 11.

**Sat.–Sun., Aug. 13–14**
Greater St. Louis Iris Society sale. Saturday: 9 a.m. to 4 p.m.; Sunday: 9 a.m. to 5 p.m. RC

**Tues., Aug. 16**
Join River City Professionals, a networking group of young entrepreneurs and business professionals, for happy hour on Spoehrer Plaza. Cash bar. 5:30 to 9 p.m. www.rivercityprofessionals.org

**Sat.–Sun., Aug. 20–21**
Public Tour Days at the EarthWays Center. Tours at 11 a.m., noon, 1, and 2 p.m. $2 (free for Garden members and children 12 and under). EH

Federated Garden Clubs of Missouri show. 9 a.m. to 5 p.m. RC

****Fri., Aug. 26**
Members' Day: Shade Gardening. See page 9.

**Mon., Aug. 29 to Wed., Sep. 7**
Japanese art exhibition by Lynn Matsuoka. RC

## September

**Sat.–Mon., Sep. 3, 4, 5**
Japanese Festival. See page 9.

PHOTO BY DIANE WILSON

## Dog Days Butterfly Ramble

*Sat., Jul. 30*

It's the best time of year to see butterflies, when flower nectar, their favorite food, is most abundant. Join entomologist James Trager on a walkabout through some of the best butterfly habitat at the Shaw Nature Reserve. For families with children at least 8 years old. 8:30 a.m. to 11 a.m. For reservations and registration fees, call (636) 451-3512.

## the key

| | | | |
|---|---|---|---|
| CA = Cohen Amphitheater | GGS = Garden Gate Shop | MC = Monsanto Center | SP = Spink Pavilion |
| CL = Climatron | JG = Japanese Garden | RC = Ridgway Center | ** denotes a members-only event. |
| EH = EarthWays Home | KC = Kemper Center | SNR = Shaw Nature Reserve | $ denotes an additional fee. |

*All events are free with admission or membership unless otherwise noted.*

# Japanese Festival 2005

Taiko drumming, tea ceremonies, anime screenings, the Candyman, candlelight tours of the Japanese Garden, and for the first time ever…SUMO. This is gonna be big! See page 9 for details.

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15193 Olive Blvd., Faust Park, Chesterfield, MO 63017

EarthWays Center (314) 577-0220
3617 Grandel Square, St. Louis, MO 63108

Little Shop Around the Corner (314) 577-0891
4474 Castleman Drive, St. Louis, MO 63110

Shaw Nature Reserve (636) 451-3512
Hwy. 100 & I–44, Gray Summit, MO 63039

**Hours**
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Open until 8 p.m. on Wednesdays until Labor Day. Parking is free.

**General Admission***
Adults age 13–64....$7 (seniors 65+.....$5)
Members and children 12 and under.....free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings from 9 a.m. to noon (unless special event pricing applies).

** Special events may require an additional fee.*

**Editor:** Elizabeth McNulty
**Designer:** Ellen Flesch
**Cover photo:** Bryan Reckamp
**Back cover photo:** Jamesly Lane

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MISSOURI BOTANICAL GARDEN

# Bulletin

September/October 2005 Vol. 93, No. 5

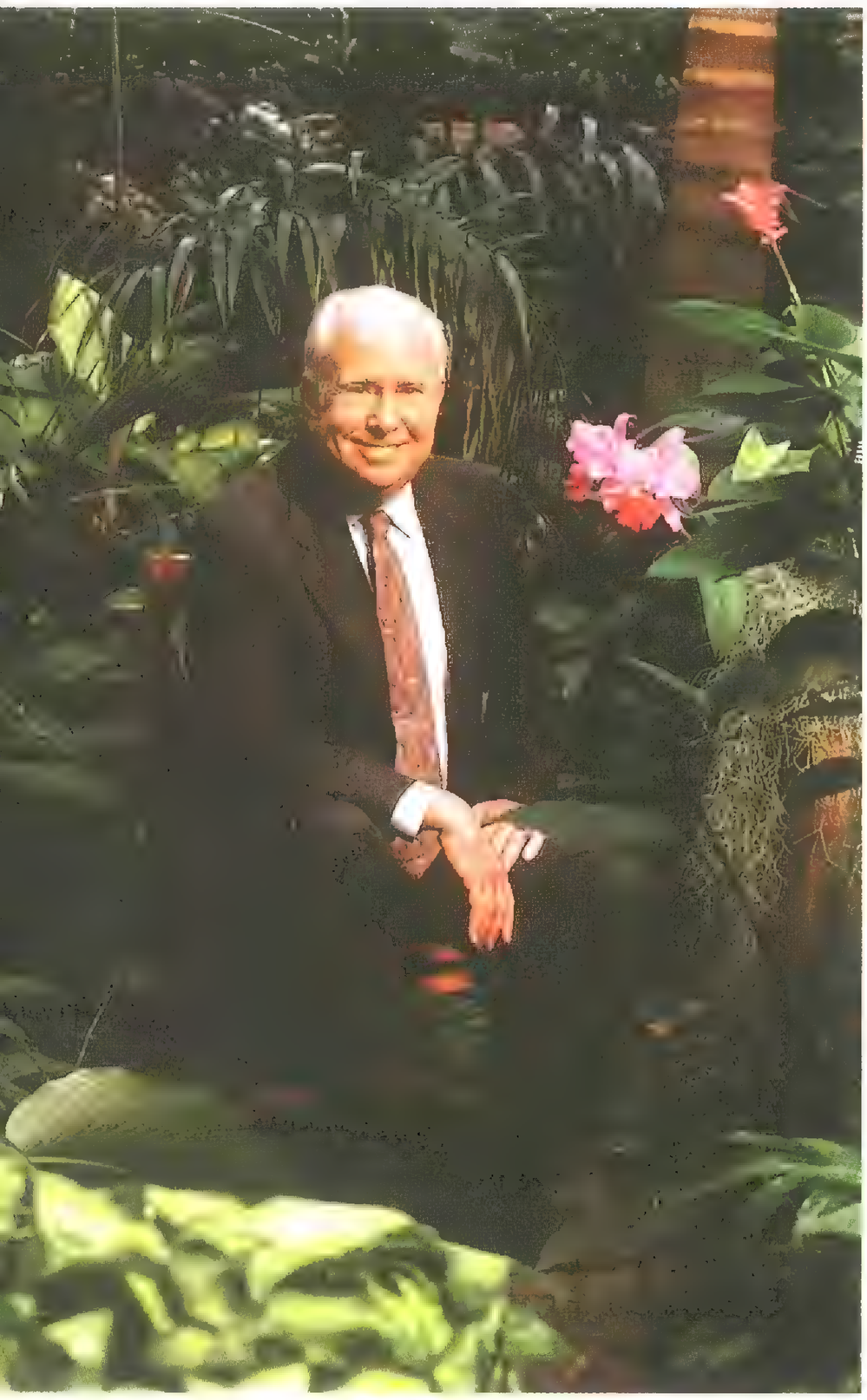

PHOTO BY PETER HOWARD

*To discover and share knowledge*
*about plants and their environment,*
*in order to preserve and enrich life.*

*– Missouri Botanical Garden*

## from the director...

As we move forward in the final stages of the $71-million *Stewards of the Earth* campaign, we mark some special milestones this fall. Several projects, part of the drive to renew and strengthen the Missouri Botanical Garden, are nearing completion, and we anticipate even more next spring, when we open the Doris I. Schnuck Children's Garden—A Missouri Adventure in April 2006.

At the Henry Shaw Dinner this May we had the privilege of unveiling the centerpiece of the new George Washington Carver Garden, a life-sized statue of Carver, in the presence of its creator, artist Tina Allen. This October, thanks to the leadership of Lawrence L. Cohn, the Harry Edison and Edison Family Foundations, The Coca-Cola Company, Mr. and Mrs. Arnold Donald, and a generous anonymous donor, this living tribute to one of our nation's most extraordinary scientists and educators will open to the public.

After two years of infrastructure investment, studies by consultants, and interpretation recommendations, Tower Grove House will reopen October 29. The generosity of The May Department Stores Company, Mr. and Mrs. Joseph F. Gleason, Mary Jane Kirtz, Mrs. Mary Ann Lee, and the Tower Grove House Auxiliary have made the restoration of this national treasure possible.

A Garden is a living, growing place, both literally in terms of the plant life, and metaphorically as well. As the oldest botanical garden in this country, and a National Historic Landmark, the Missouri Botanical Garden occupies a unique position requiring exacting maintenance of historic structures. But we must also grow new gardens to maintain our vital connection to the community. Our members are our greatest supporters, and as we approach the close of the *Stewards of the Earth* campaign, I am confident we can rely on your continued support to help the Garden grow.

Peter H. Raven, *Director*

Peter H. Raven


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## editor's note

Drought conditions this summer have made for some premature leaf fall, but that's nothing compared to what we expect when two sumo (combined weight: 785 pounds) shake the ground with their wrestling at this year's Japanese Festival. Sumo is such a revered sport in Japan that exhibition matches of professional sumo off-island are unusual (with the exception of Hawaii), so you won't want to miss this rare event at the 2005 Japanese Festival.

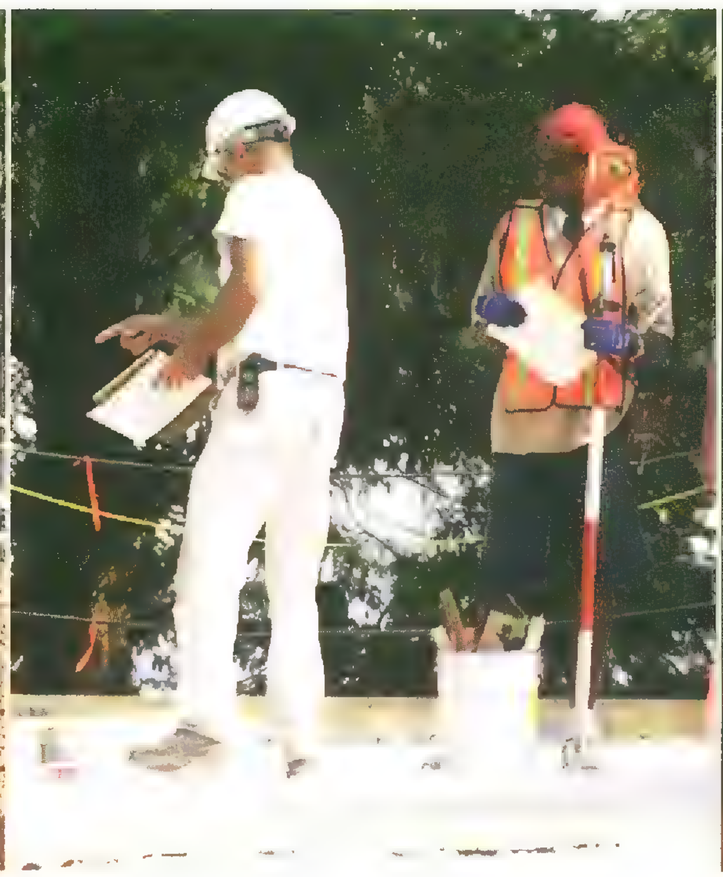
Best of Missouri Market® is also bigger than ever this year, with over 120 new and returning vendors, four (count 'em: four) tents, and more elbowroom. Get an early start on your holiday shopping with unique gifts from original Missouri artisans.

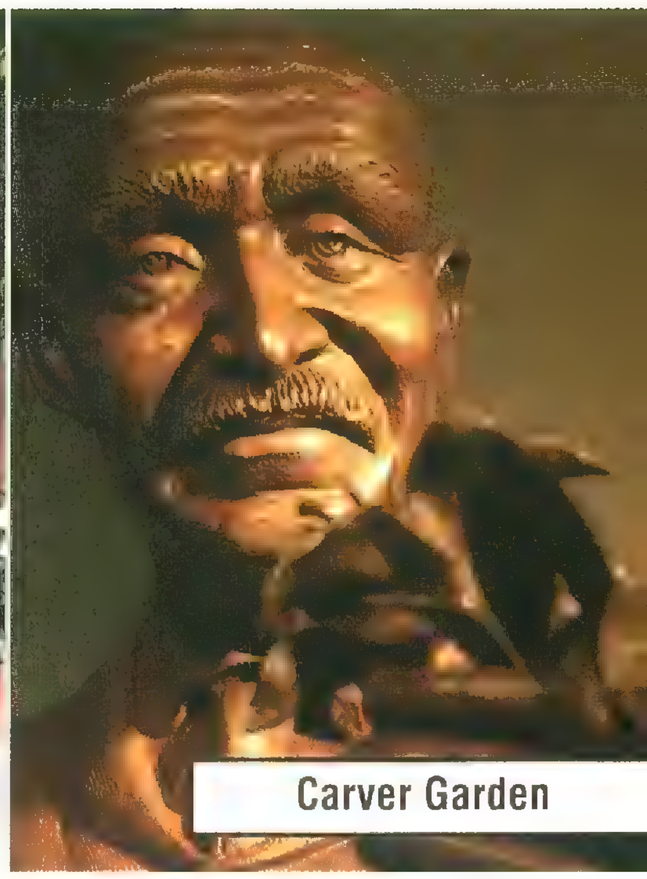
Remember: members receive discounted admission and early-bird shopping privileges on Saturday at 7 a.m.

Whether you're educating yourself on ways to improve your home's efficiency at the EarthWays Center's Energy and Recycling Festival, visiting the creepy-crawlies at the new Butterfly House exhibit, or getting your hoe-down on at the Shaw Nature Reserve Harvest Festival, you'll find abundant fun and festivities at the Garden's family of attractions this fall.


Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

Children's Garden




Carver Garden

# Stewards of the Earth

the Campaign for the Missouri Botanical Garden

*Above from left to right:*

*Children's Garden construction is ongoing with a scheduled opening in April 2006.*

*Construction on the Carver Garden began in June. Preliminary site grading has been completed and a temporary road is in place. The drystone amphitheater bench wall is already nearing completion, and preliminary steps taken for the pool fountain.*

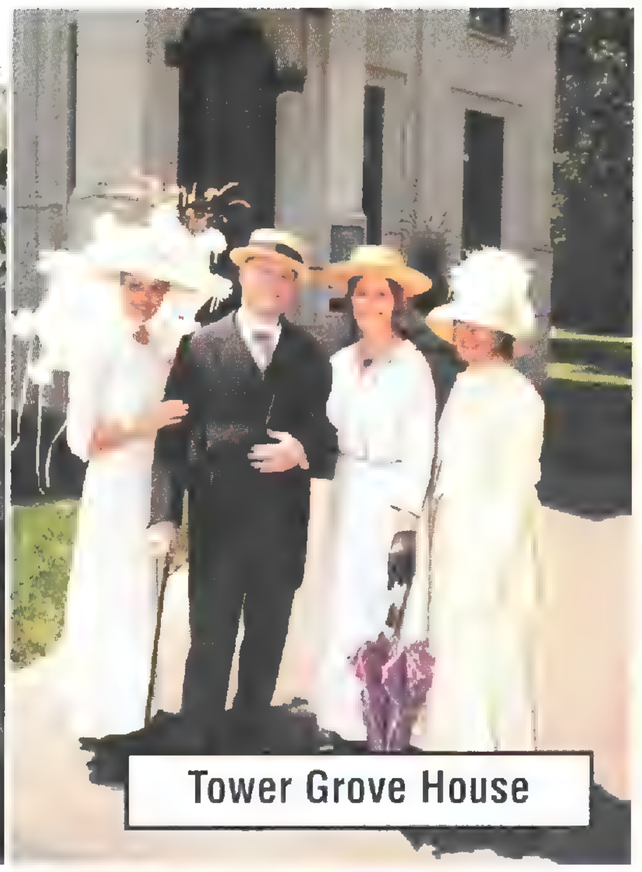
*Henry Shaw's Birthday 2005 featured old-fashioned family fun and "visitors" from the Victorian era. The newly renovated house will open October 29 and features an exhibit on the history of Shaw and his garden.*

Announced publicly in May 2003, the *Stewards of the Earth* campaign seeks $71 million in private support to strengthen the Garden's critical role in establishing St. Louis as a world leader in the plant sciences and greatly enhance biodiversity and conservation around the globe. With targeted support for both the 79-acre St. Louis campus and the Shaw Nature Reserve in Gray Summit, the campaign is now entering the final stages before its December 2005 conclusion. The Garden is very grateful for the support of Garden members, whose generous support has provided the leadership to achieve the current level of success. Approximately $4 million remains to be raised to achieve our goal, but the results of this tremendous effort are already being seen throughout the Garden's grounds.

Various infrastructure repairs are underway, thanks to the *Stewards of the Earth* campaign. Renovations this spring included the café and Spink Gallery. Recent visitors may have noticed the construction in the Ridgway Center to replace outdated and inefficient heating and cooling, as well as a ceiling replacement. Additional lighting and acoustical engineering are planned as well. Windows on the south side of the Linnean House have been repaired or replaced this summer, as was the historic wrought-iron fence around Shaw's mausoleum. In addition to funding basic maintenance and upkeep required by a 146-year old historic botanical garden, the *Stewards of the Earth* campaign has also inaugurated many brand-new facilities and attractions.

In October 2003, the new state-of-the-art **Commerce Bank Center for Science Education** opened its doors as the premier center for math and science learning and teaching in the St. Louis region. Made possible by the William T. Kemper Foundation and Commerce Bank, the center features leading-edge computer and laboratory facilities, and served over 1,400 students in its first year. The Center is the headquarters for the Garden Education Compact with the St. Louis Public Schools', and also hosts professional development classes for teachers and community activities, like a recent Italian language class.

Construction began on the **George Washington Carver Garden** on June 20, 2005. Funded through the generosity of Lawrence L. Cohn, the Harry Edison and Edison



Tower Grove House

PHOTOS BY KEVIN WOLF

Family Foundations, The Coca-Cola Company, Mr. and Mrs. Arnold Donald, and an anonymous donor, this garden will be a living tribute to a man widely regarded as the most influential agricultural scientist of the 20th century. Featuring a central pool with life-size statue of Dr. Carver, there will be places for quiet reflection, as well as a small amphitheater for educational offerings. Completion is scheduled for mid-October, and all members are invited to attend the opening ceremony. Acclaimed sculptor Tina Allen will be on hand for the unveiling of the sculpture.

The renovation and reinterpretation of Henry Shaw's original country home **Tower Grove House** is now nearing completion, thanks to the generous gifts of The May Department Stores Company, Mr. and Mrs. Joseph F. Gleason, Mary Jane Kirtz, Mrs. Mary Ann Lee, and the Tower Grove House Auxiliary. Once reopened this fall, the building will have a new roof, all-new internal systems, a complete interior renovation, and a new interpretive exhibit on the history of Shaw and his Garden. A ribbon-cutting ceremony will take place on the front steps, including a presentation and refreshments on the west lawn, and tours of the house.

Construction began on the **Doris I. Schnuck Children's Garden—A Missouri Adventure** last spring and is now nearing the final stages before the springtime grand opening. Named through the generosity of the Schnuck family in honor of their mother, the Doris I. Schnuck Garden's primary purpose is to give young children at an impressionable age the opportunity to learn about the importance of plants in our lives in a fun and engaging way. Through the interactive theme of Missouri adventure, history and botany are brought to life with an appeal for kids as well as adults.

The area of the Children's Garden, located on two acres west of the Climatron, has already begun its transformation into a multilevel children's retreat, complete with elevated boardwalks, tree house, and waterfall. Foundations are in place and construction is underway for the General Store, Surveyor's Office, the cave maze, and the "jail" where invasive plant species are kept. Supporters of these many different areas include the Dana Brown Charitable Trust, Monsanto Fund, A.G. Edwards, Karen and Bert Condie, Jane and Bob Tschudy, Edward Jones, Mr. and Mrs. Robert Truslaske, Sr., and the McDonnell Family. Don't miss the grand opening festivities every weekend in April 2006.

## George Washington Carver Garden Dedication

*Saturday, October 15, 11 a.m.*

Carver Garden (on the west side between the Kemper Center for Home Gardening and the Japanese Garden)

In addition to speakers, the statue of Carver will be unveiled and visitors will be allowed to explore the new garden.

## Tower Grove House Ribbon-Cutting

*Saturday, October 29, 11 a.m.*

Tower Grove House steps and west lawn

A ribbon-cutting ceremony will take place on the front steps, followed by speakers and refreshments on the west lawn.

Tours of the house will also be offered.

## Children's Garden Grand Opening Weekends

*Every weekend in April 2006*

Doris I. Schnuck Children's Garden—A Missouri Adventure

(west of the Climatron)

Interactive music, activities, and games.

PHOTO BY TRENT FOLTZ

For more information on how you can help, please contact Director of Development Patricia Arnold at (314) 577-5120.

# EVENTS

ARTWORK BY LYNN MATSJOKA

*The signature image of Japanese Festival 2005 by artist Lynn Matsuoka incorporates both sumo and the theme of daylilies.*

## Japanese Festival

For the first time ever, the Missouri Botanical Garden's Japanese Festival will present demonstrations of the ancient sport of sumo, rarely seen outside Japan and Hawaii. Two former *sumotori*, or *rishiki*—literally, "strong man"—will face each other at 2 p.m. and 4 p.m. each day. Clad in traditional silk loincloths, they will demonstrate various sumo fighting postures and techniques in tandem, and then face each other as opponents in a demonstration *torikumi*, or bout. Sumo artist Lynn Matsuoka, who covers Grand Sumo Tournaments for Japanese television and has spent over 30 years depicting sumo in drawings and paintings, will provide commentary. She also gives an hour lecture on sumo at noon Sunday and Monday.

Also at this year's festival: taiko drumming, tea ceremonies, anime screenings, the Candyman, karaoke, and candlelight tours of the Japanese Garden. For full details, visit the Garden's website (www.mobot.org) and download the complete Japanese Festival schedule.

***Japanese Festival: Sumo in the Garden***
*Saturday and Sunday, September 3 and 4, 10 a.m. to 8 p.m.*
*(grounds remain open til 10 p.m. for candlelight walking tours)*
*Monday, September 5, 10 a.m. to 5 pm.*

***Admission:*** *$10 adults ($7 seniors 65+), $3 Garden members and children ages 3 to 12, Free for members' children (12 and under) and children 2 and under.*

## The Beauty of Bulbs

*Thursday, September 15, 11 a.m., Ridgway*
Meet Jason Delaney, the MBG horticulturist responsible for the impressive bulb displays at the Garden. Jason will share his best cultural tips and ideas for designing unique bulb gardens. A presentation in the auditorium will be followed by a walking tour of the Samuels and Heckman Bulb Gardens.

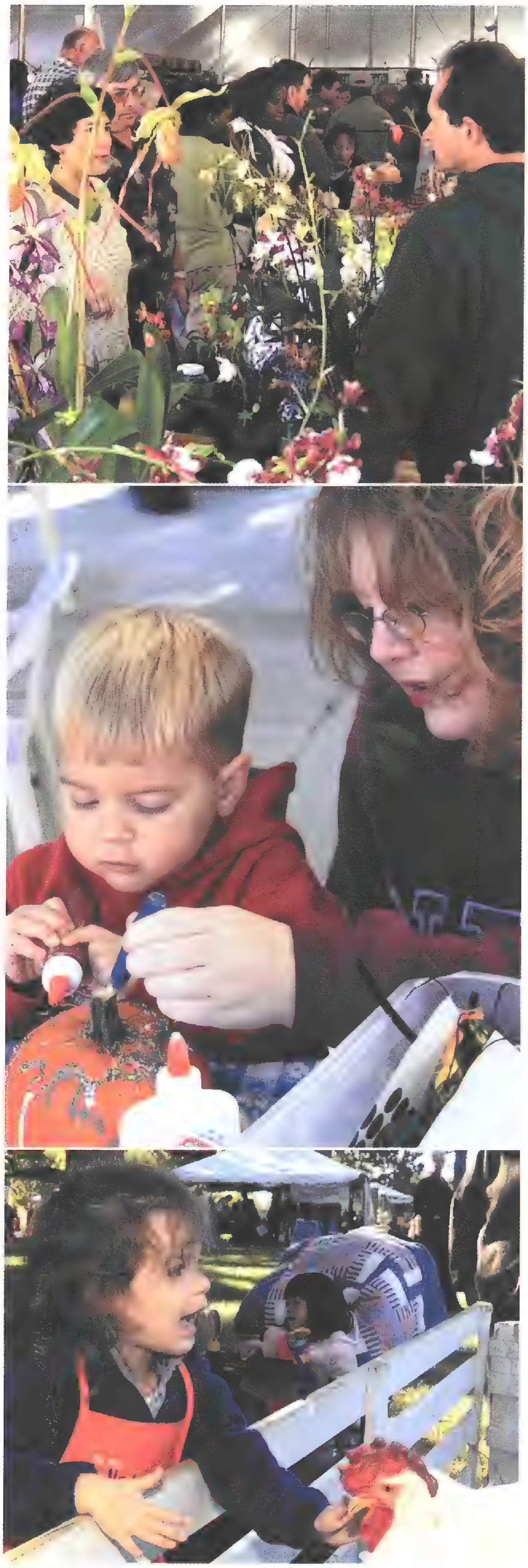
## Day Trip

*Tuesday, October 4, 8 a.m.*
Sponsored by the Tower Grove Auxiliary, enjoy a scenic fall day trip to Louisiana, Missouri, to see glass blowing and pottery making at artisan studios, shop the city's charming antique and craft shops, and enjoy lunch and a late-afternoon snack. Excursion departs from the Garden at 8 a.m. and returns by 7:30 p.m. Tickets are $60, and reservations are required. Call (314) 577-9500.

## Sculpture Tour of the Garden

*Friday, October 14, 11 a.m., Ridgway*
Incorporated within the Missouri Botanical Garden are many fine pieces of sculpture that enhance the beauty of the grounds. Learn more about our impressive collection from Mary Jane Kirtz, long-time Garden Docent and sculpture expert. A presentation in the auditorium will be followed by a walking tour to see the most significant pieces.

PHOTOS BY JAMESLY LANE, JOSH MONKEN, AND DIANE WILSON



# 14th Annual Best of Missouri Market

Best of Missouri Market® is bigger and better than ever with over 120 new and returning vendors, a fourth vendor tent for more room to shop, and two additional parking lots to ease congestion. Return for your familiar favorites and find new treasures you won't see anywhere else. The Best of Missouri Market offers fresh food, family fun, and plenty of finds for your holiday shopping list. Sample seasonings and salsas, baked goods, candies, fruits and vegetables, and many more Missouri goodies. See the finest work from area artisans including pottery, decorative ironwork, custom jewelry, toys, baskets, wreaths, and soaps.

***Just for Members...*** On opening day, members enjoy early bird shopping privileges and will be admitted to the Market at 7 a.m., two hours before non-members. Get first crack at the freshest items before the crowds descend. Early bird refreshments are courtesy of Great Harvest Bread, Ronnoco Coffee, and Central States Coca-Cola Bottling Company.

***Kids' Corner...*** will feature a variety of popular activities for the entire family. Even big kids will enjoy the pumpkin decorating, apple cider press, petting farm, face painting, and cow milking. The Home Depot will provide a fun take-home activity.

***Music...*** Enjoy the best of local folk and bluegrass musicians at Spoehrer Plaza. Cumberland Gap will perform Saturday and Sunday from 11:30 a.m. to 1:30 p.m. and Raven Moon will perform both days from 2 to 4 p.m.

***Demonstrations...*** Pat Scace from StudioP Creative Botanical Design will host a floral arrangement demonstration in Shoenberg Auditorium on Saturday at 1 p.m. Ed Goodman, KEZK Morning Show personality will return for a cooking demonstration in the Kemper Center for Home Gardening on Sunday at 1 p.m.

***New in 2005...*** an expanded food court with 13 vendors serving the tastiest snacks and meals the area has to offer!

***Parking...*** Free parking is limited on Garden grounds but available at four parking lots one block west of the Garden, located at the Monsanto Center, the Commerce Bank Center for Science Education, and at the corner of Vandeventer and Shaw. Visitors may also park in Tower Grove Park. Complimentary shuttles will be running.

*The 14th annual Best of Missouri Market is sponsored by Schnuck Markets, Inc. Additional support provided by Central States Coca-Cola Bottling Company, Commerce Bank, Edward Jones, Enterprise Rent-A-Car, IR Climate Control Sector/ Hussmann Corporation, UniGroup, Inc., Waterway Gas and Wash, and The May Department Stores Company. Media sponsorship by KMOX-AM Radio. Thanks to the Girl Scout Council of Greater St. Louis, Fabick Power Systems, Sachs Electric Company, and The Home Depot, Inc.*

***14th Annual Best of Missouri Market***
*Saturday & Sunday, October 1 & 2, 9 a.m. to 5 p.m.*
*7 a.m. Saturday "earlybird" shopping for members only*

***Admission:*** *$10 adults ($7 seniors 65+), $3 Garden members and children ages 3 to 12, Free for members' children (12 and under) and children 2 and under.*

# NEWS

PHOTO BY KEVIN WOLF

## Tomato Contest Winners

On July 30, over 200 proud gardeners braved the heat to put their tomatoes to the test in the NatureSweet Best Homegrown Tomato Challenge. Tomatoes were judged on overall appearance, color, and Brix test score (a measure of sweetness). Winner Heather Rathsam walked away with the $5,000 grand prize for her 'Yellow Grape' tomatoes. Three finalists each won a $250 gift certificate to Schnucks, Dierberg's, or Shop 'n Save: Charles Messler, 'Ruby Hybrid'; Andrew Kocate, 'Sun Sugar'; and John Weddle, 'Pink Girl.' Congratulations!

## Behind the Sassafras

PHOTO BY ELIZABETH MCNULTY

Members' Board President Nancy Sauerhoff leads a dual life. When not volunteering at the Garden, she works as a freelance interior architect, partnering with local firms to design and refine their interior plans. Her lives merged this spring when she worked with Kimble Cohn + Partners to choose the colors and finishes of the interior of Sassafras, the Garden's newly renovated café. "I've been involved at the Garden as a volunteer for many years and now have the privilege of serving as the Members' Board President," says Sauerhoff. "I hope to encourage others to support our Garden not only because of its incredible history and beauty, but also for its place in worldwide plant research and environmental sustainability."

"We wanted a welcoming dining environment for our many visitors, but also with a certain sophisticated ambiance befitting a world-renowned destination such as the Garden," says Sauerhoff. Many features of the Sassafras interior are environmentally friendly. Tabletops and divider walls are surfaced in a material made of recycled paper and agricultural alfalfa. Walls are accented in cork and sustainably harvested cherry. A large central skylight brightens the area, and pendant table lamps use energy-efficient fluorescent bulbs. Be sure to visit Sassafras this fall to admire Nancy's handiwork, and to enjoy the hearty seasonal menu.

## More Rewarding Than Ever

The Garden's Corporate Partners make a vital contribution to the quality of life in the St. Louis region. Funding from Corporate Partners helps the Garden to offer math, science, and environmental instruction to nearly 120,000 students every year, and to train thousands of area teachers in the latest scientific inquiry-based techniques. The Garden's 48 Ph.D. researchers do fieldwork in 35 countries on six continents, making the Missouri Botanical Garden one of the world's preeminent centers for botanical knowledge, helping to support regional biotechnology development. Corporate Partnership is a great way for your employer or business to invest in the future of our community! To thank our Corporate Partners for their generous support, the Garden now offers even more rewarding benefits. To learn more about the Corporate Partners program, please contact Katherine Kornfeld, Corporate and Foundation Relations Officer, at (314) 577-9513 or e-mail: katherine.kornfeld@mobot.org.

PHOTO BY TRENT FOLTZ

## Brian LeDoux Retires

On August 12, exhibit designer Brian LeDoux retired from the Garden. Working with fellow staffers and a crew of volunteers, LeDoux has worked on every flower show at the Garden since 1975, brainstorming the concept, assembling and acquiring the props, and arranging the plant material. LeDoux met his wife, Marilyn, working at the Garden; they wed in 1981. While he won't miss getting up at 5 a.m. for the 45-minute drive in from his property near Labadie, Missouri, LeDoux will miss his coworkers and the variety of work. Production of flower shows will now be undertaken by Pat Scace, who worked as Brian's assistant 10 years ago, and is today a freelance floral designer and landscape architect under the name Studio P in Columbia, Illinois.

# GARDEN AT LARGE

**SHAW NATURE RESERVE**

Hwy. 100 & 44 (exit 253)
Gray Summit, MO 63039
phone: (636) 451-3512
www.shawnature.org

*Founded in 1925, the Shaw Nature Reserve encompasses 2,400 acres of tall-grass prairie, forests and glades, woodlands and wetlands, into 14 miles of hiking trails.*

PHOTOS BY JOSH MONKEN

## SNR Harvest Festival

*Sunday, October 9, 11 a.m. to 5 p.m.*
*$5 ($3 for Garden members); $4 ages 65+; free for children 12 and under*

The fourth annual Harvest Festival will feature food from some of St. Louis's top restaurants, a farmers' market with local produce and products, hayrides, pony rides, self-guided tours of the Reserve, and live music. Come to Gray Summit for a day of down-home, family fun!

**Music Schedule**

- Augusta Bottoms (American folk music), 11 a.m. to 12:45 p.m.
- The Flying Mules (retro-folk, bluegrass, rock), 1 p.m. to 2:45 p.m.
- Salt of the Earth (roots music), 3 to 5 p.m.
- The Grass Pack will be playing bluegrass from 11:30 a.m. to 3:30 p.m. near the entrance to the festival.

*Please: no pets or outside beverages allowed. Coolers may be brought in empty in order to store fresh purchases from the farmers' market. Due to limited parking, carpooling is recommended as both efficient and Earth-friendly.*

*Presented by* Sauce *Magazine and Schlafly Beer. Sponsors include Bank of Washington,* Washington Missourian, *Mount Pleasant Winery, KWMU 90.5 FM, KDHX 88.1 FM, and KNSX 93.3 FM.*

## Ick Day!

*Saturday, September 10, 9 a.m. to 3 p.m.*

What creeps, crawls, slithers or slides, hops around or takes a dive? Join Outback Ed, the St. Louis Herpetological Society, and the Butterfly House for a day at Shaw Nature Reserve of underappreciated critters, including reptiles, insects, amphibians, and more! Free for Garden members. For more information, call (636) 451-3512.

## Prairie Portraits

*Sunday, September 11 through October 30, 10 a.m. to 4 pm.*

Artist George Olson paints portraits of prairie grasses and wildflowers and has shown widely in the United States and England. Grand opening of the exhibit will include a book signing by the artist, Sunday, September 11, from 2 to 5 p.m. in the Bascom House.

## Reminder: Teacher's Prairie Workshop

*Saturday, September 24, 9 a.m. to 4 p.m.*

This one-day workshop for educators of grades K–12 incorporates prairie ecology, cultural diversity, and literature into a science curriculum. Fee: $20 (includes lunch). Registration required, so call (314) 577-9506.

EARTH WAYS CENTER

3617 Grandel Square
St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org

*EarthWays Center is a division of the Garden that teaches people of all ages about practical ways to conserve natural resources, reduce waste, and prevent pollution – at home, at school, and in the workplace.*

PHOTOS BY JAMESY_ANE AND COJRTESY EARTHWAYS CENTER

## EarthWays Center Energy and Recycling Festival

*Saturday and Sunday, September 17 and 18, 10 a.m. to 4 p.m., free*

As autumn leaves turn red and gold, EarthWays Center invites you to learn about "green!" Our fourth annual Energy and Recycling Festival features practical ways to use energy wisely, reduce-reuse-recycle waste, and save money on your home energy bills.

New this year: recycling joins the energy festival, with exhibits of recycled-content products, indoor and backyard composting systems, and more! Talks by local experts will spotlight wind and solar energy, Home Performance with ENERGY STAR services, windows and green roofs. And festival kids can build and race their own solar cars!

Learn about insulation, hydrogen fuel cells, hybrid cars and energy efficient home remodeling options. Sample snacks cooked in a portable solar oven. Returning by popular demand: the Change-A-Light Bulb Sale. Stock up on ENERGY STAR qualified compact fluorescent light bulbs for only $0.99 each, all weekend.

Admission and parking are free! For more information, including resources from previous Energy Festivals, visit us online at www.earthwayscenter.org or call (314) 577-0220.

## Green Building Public Lecture

*Thursday, October 13, 7 p.m., Shoenberg Auditorium*

Today's "green" buildings mimic nature's own conservation methods. Can buildings of tomorrow participate with nature on its own terms? William Reed, AIA, one of the nation's leading experts in green design, presents ideas in "Regenerative Design," a free public lecture sponsored by the U.S. Green Building Council—St. Louis Regional Chapter. For more information call (314) 577-0854 or visit www.usgbc.org/Chapters/stlouis.

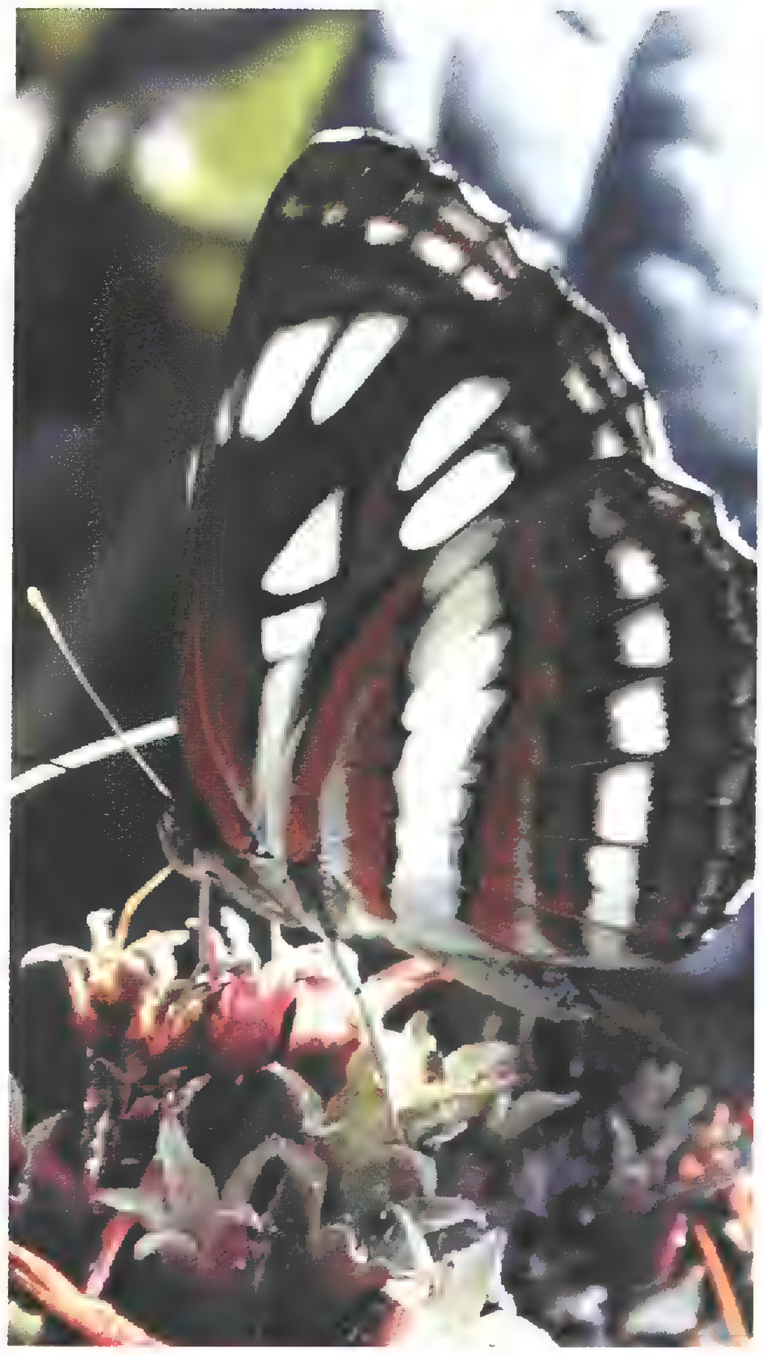


PHOTO BY MARK DEERING

*Sailor, Neptis hylas*


15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org


## Flutter into Fall Fashions

*Wednesday, September 21, 11 a.m., $60 per person*

Are you ready for some fall color in your life? Please join us for a fall event, including lunch under the tent of the Emerson Lakeside Terrace, a fashion show by Talbots, and a raffle and silent auction with beautiful items like a Baccarat crystal butterfly. Attendees will also receive a one-day discount of 20% in the Madame Butterfly Gift Shop. Proceeds benefit the educational programs at the Sophia M. Sachs Butterfly House. Please join us for a great time and a great cause. For reservations, call (314) 577-9570. If you are unable to attend, but would like to support the Butterfly House with a gift, please call (314) 577-0297.

## Boo-tterflies

*Saturday, October 22, 11 a.m. to 2 p.m.*

No tricks, just treats at our special Halloween party. Kids ages 2 to 8: wear your costume and play "The Ghostess with the Mostess," "Mummy Make-Over," "Scarecrow Lasso," "BOO-ket Ball," and more. Create lots of spooktacular crafts. You'll have a ghostly good time and go home with great prizes and yummy treats. Activities free with regular admission.

## BUZZ: Pinning

Monarchs: The Great Migration: *Saturday, September 17* or
Spiders: *Saturday, October 8*

BUZZ is a series of monthly classes, workshops and events at the Butterfly House for children ages 8–12. Classes are $13 ($9 for Garden members), but visitors are encouraged to enroll in three classes for the price of two. Classes are 90 minutes long and take place at 2 p.m. on one Saturday per month. Parents are asked to attend the class with their children and class size is limited to 20. Reservations are required. Please call (636) 530-0076 ext. 10.

## BUTTERFLY HOUSE TRIBUTES

*For information on making a gift to the Butterfly House Tribute Fund, please call (314) 577-0297.*

**Ms. Cheri A. Pederson**

Alter Company
Mr. and Mrs. John Brandvein
Mr. and Mrs. Robert Goldstein
Mr. and Mrs. Henry Haake
Mr. Jack Huelsmann
Mr. and Mrs. William Johnson
Mr. and Mrs. James M. Reimer
Ms. Mary Schuh

## BUTTERFLY HOUSE PAVERS

*Butterfly House pavers are a great way to recognize graduations, weddings, birthdays, holidays, and memorials. For information, call the Development Office at (314) 577-0297.*

**Al Bertram**
Kathy and Larry Shoults

**Chesterfield Hill Garden Club**
Chesterfield Hill Garden Club

**Shirley Ann Cody**
The Dennis Smith Family

**Kristine Kalejs Gifford**
Kris Pearson

**Susan Gower**
Nancy, Phyllis, Dawn, and Kate

**Carol Grisham**
Dumb Blondes Club

**Mary Anne Meier**
Bayless Intermediate School

**Danny Stein**
Tom Hartmann

**MaryEllen Trachsel and Laurie Copeland**
Nancy Rodgers

**Vicki Sussman**
Nancy Rodgers

**Susan Syrup**
Chris, Jenny and Greg

**Jeannie Waters**
Mona, Blackie, Roxie and Robin

**Dave Wohl**
Chris Newman
Marilyn S. Schear

*Tributes and Pavers donated to the Butterfly House from May to June 2005.*

## A Small World After All

Names to the contrary, butterflies are not the only animals in residence at the Sophia M. Sachs Butterfly House. This summer, invertebrates from all over the world take a permanent center stage in the "Discovering a Small World" exhibit in the newly renovated Grand Hall.

The new exhibition features habitats filled with creatures that showcase the diversity of invertebrates. "Our goal is to help people understand that the loss of any animal species, including insects, can have a severe impact on the environment," says Joe Norton, director of the Butterfly House. "Animals and plants fill niches with everything in delicate balance."

The exhibit includes:

- a colony of approximately 300 Orange Head Roaches, native to Central and South America;
- an example of the aggressive, territorial Two Horn Beetle from tropical Asia;
- the 4 to 6-inch long Jungle Nymph, which is a master of disguise in order to elude predators;
- the Red Knee Tarantula, another large-sized animal, though at six inches in diameter, they are not the largest of tarantula species;
- Yellow Taxi Cab Beetles, Desert Hairy Scorpions, Giant Cockroaches and Flamboyant Flower Beetles are among the other varied species visitors can see up-close and personal.

"Discovering a Small World" will grow with additions and enhancements in future months, and is the first of five new exhibits being added to the Grand Hall over the course of the next two years.

# Seiwa-en Japanese Garden

# HOME GARDENING

By now, members should have received their new Adult Education catalog in the mail, but if not, check out the classes online at the Garden's website: www.mobot.org/gardeninghelp. Members receive discounts on all classes of up to 20%. For more information, call (314) 577-9441.

It's back-to-school time for creative gardeners, and registration is now open for fall adult education classes at the Garden. From professional to novice, all crafty gardening enthusiasts will enjoy classes with expert instructors on a wide variety of horticultural, art, and cooking topics.

Celebrate the 10th anniversary of plant testing at the William T. Kemper Center for Home Gardening with several new "anniversary" classes highlighting star performers. Fast-paced and designed for the avid gardener or green industry practitioner, these classes feature topics like "Best Bulbs for Missouri" with the Garden's horticulturalist responsible for the bulb gardens, Jason Delaney or "Best Larger Shrubs and Small Trees" with Japanese Garden head horticulturalist Ben Chu, or "Best Perennials" with the Kemper Center's Garden Supervisor, June Hutson.

Beginners will also have fun, with a number of "classics" this fall, such as "Well-Seasoned Advice for the Novice Gardener" with KMOX's Mike Miller, host of the "Garden Hotline." There are a variety of new cooking and art-related classes as well, including the "Diabetic Gourmet" and "Plant Photography." Classes are offered at several locations (St. Louis, Ellisville, and Illinois), including the Shaw Nature Reserve. Take part in the new "Native Plant School" there this fall, with multiple three-hour sessions year-round.

Fall classes are held from August 30 through December 11. Fees range from $20 to $60 for single session classes and many cost just $25. Multiple session class fees range from $120 to $280. Missouri Botanical Garden members receive a discount.

## Paging the Plant Doctor

The Garden is seeking knowledgeable gardeners to volunteer at the Kemper Center for Home Gardening. Whether a current or retired professional horticulturist, Master Gardener, or an experienced amateur gardener, you can put your expertise to work fielding a variety of visitor inquiries about plants. Plant Doctors can be "on call," answering questions as problems arise, or they staff the Plant Doctor Desk inside the Kemper Center. If you or someone you know would like more information on becoming a Plant Doctor, call Jackie Juras at (314) 577-5187 during weekday business hours, or e-mail jackie.juras@mobot.org.

## From Pots to Planks

Thanks to everyone who made the seventh year of Plastic Pot Recycling another fantastic success! Over 60,000 pounds of horticultural plastic were saved from the landfill, collected, shredded, and recycled (by Environmental Recycling, Inc. of St. Louis) into 3,000 garden-friendly recycled plastic planks.

A durable alternative to lumber, plastic planks are waterproof, rustproof, insectproof, and last up to 50 years (wood lasts only 5–10 years). Purchase Pots-to-Planks lumber at cost, while supplies last, at the Kemper Center for Home Gardening. Also available: two sizes of raised-bed kits and a new Pots-to-Planks backyard composting bin. Visit the Center's reception desk daily 9 a.m. to 5 p.m. or call (314) 577-9443 to learn more. Download an order form from the Pots-to-Planks website: www.mobot.org/hort/activ/plasticpots.shtml.

*Special thanks to the St. Louis Solid Waste Management District in Monrovia for supporting the environmental effort.*

## Gnome-ato

Visitors to the Kemper Center for Home Gardening display gardens might have been startled to see a little friend peeping out from behind the latest tomato cultivars in the Naumann Experimental Garden. Here, visitors (gnome included) learn about ways to improve soils, techniques for increasing yield, methods of pest control, evaluation of plant selections, and other experimental trials. The oodles of tomatoes in August drew many admirers, however, and the shy gnome has once again departed for less busy locale. Can you find him now?

PHOTO BY CHARLES SCHMIDT

## FROM THE WILLIAM T. KEMPER CENTER FOR HOME GARDENING...

# WHAT TO DO IN THE GARDEN THIS MONTH

*For additional information on plant care and gardening:*

- *visit the Kemper Center for Home Gardening*
- *call the Horticultural Answer Service, Monday through Saturday, 9 a.m. to noon, at (314) 577-5143*
- *check out the Gardening Help section at www.mobot.org*

## September

### All month

- Turfgrass: Begin fall seeding or sodding of cool-season grasses. Seedbeds should be raked, de-thatched or core-aerified, fertilized, and seeded. Keep newly planted lawn areas moist, but not wet. If soils become dry, established lawns should be watered thoroughly to a depth of 4–6 inches. Cool season lawns are best fertilized in fall. Make up to three applications between now and December. Do not exceed rates recommended by fertilizer manufacturer.
- Autumn is a good time to add manure, compost, or leaf mold to garden soils for increasing organic matter content.

### Week 1

- Cut annuals to provide vigorous plants for over-wintering.
- Herbs can be dug from the garden and placed in pots now for growing indoors this winter.
- Pick pears before they are fully mature. Store in a cool, dark basement to ripen.
- Sow seeds of radish, lettuce, spinach, and other greens in a cold frame.

### Week 2

- Plant spring bulbs (except tulips) as soon as they are available.
- Ready houseplants for winter indoors. Prune back rampant growth and protruding roots. Check for pests. Bring plants indoors at least one month before the heat is turned on.
- Pinch out the top of Brussels sprout plants to plump out the developing sprouts. Tie leaves around cauliflower heads when they are about the size of a golf ball. Keep broccoli picked regularly to encourage additional production of side shoots.
- Top-dress lawns with compost or milorganite, best done after aerifying.

### Week 3

- Poinsettias can be forced into bloom for the holidays if they are moved indoors now to a sunny windowsill. Each night, they must be kept in a cool, dark place where there is no light for 14 hours. This must continue until proper color is achieved in 6 to10 weeks.
- Pinch off any young tomatoes that are too small to ripen to channel energy into ripening the remaining full-size fruits.
- Newly seeded lawns should not be cut until they are at least 2–3 inches tall.

### Week 4

- Divide perennials now. Enrich the soil with peat moss or compost before replanting.
- Divide peonies now. Replant in a sunny site and avoid planting deeply.
- Lift gladiolus when their leaves yellow. Cure in an airy place until dry before husking.
- Check all along peach tree trunks to just below the soil line for gummy masses cased by borers. Probe holes with thin wires to puncture borers.
- Sow spinach now to over-winter under mulch for spring harvest.

## October

### All month

- Plant spring bulbs among hostas, ferns, daylilies, or ground covers. As these plants grow in the spring they will hide the dying bulb foliage.
- Plant container-grown and balled-and-burlapped trees and shrubs now. Loosen the soil in an area five times the diameter of the root ball before planting. Mulch well after watering. Continue watering, especially evergreens if soils are dry.
- Store apples in a cool basement in old plastic sacks that have been perforated for good air circulation.
- Sow cover crops such as winter rye after crops are harvested.

## Week 1

- For best bloom later this winter, Christmas cactus, potted azaleas, and kalanchoe may be left outdoors until night temperatures drop to about 40° F.
- Continue harvesting tender crops such as winter squash and pumpkins before frost. For best storage quality, leave an inch or two of stem on each fruit. Dig sweet potatoes before a bad freeze. Gourds should be harvested when their shells become hard or when their color changes from green to brown.
- A few degrees of frost protection may be gained by covering tender plants with sheets or lightweight fabric row covers.

## Week 2

- Cannas and dahlias can be dug when frost nips their foliage. Allow the plants to dry under cover in an airy, frost-free place before storage.
- Spring bulbs for forcing can be potted up now and stored in a cool, frost-free place until it is time to bring indoors, usually 12 to 15 weeks.
- Persimmons start to ripen, especially after frost.

## Week 3

- Transplant deciduous trees once they have dropped their leaves.
- Monitor fruit plantings for mouse activity and take steps for their control if present.
- Continue mowing lawns until growth stops. Keep leaves raked off lawns to prevent smothering grass. Now is a good time to apply lime if soil tests indicate the need.

## Week 4

- Plant tulips now.
- Trees may be fertilized now. This is best done following soil test guidelines.
- Place wire guards around trunks of young fruit trees for protection against mice and rabbits.
- Winterize mowers before storage.

# FEATURED PLANT OF MERIT

PHOTO BY ALAN STENTZ

## Sour Gum

*Nyssa sylvatica*

A slow-growing, deciduous, Missouri native, Sour gum (also called Black tupelo) grows 30 to 50 feet tall. Small, greenish-white flowers in spring give way to small oval fruits, which are technically edible but quite sour (hence the common name). Fruits mature to a dark blue and are attractive to birds and wildlife. Spectacular scarlet fall leaf color.

*Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org*

# IN BLOOM

for a complete list of plants in bloom go to www.mobot.org

## September

*Blazing Star in the Rock Garden*

*Victoria waterlilies in the Milles Sculpture Pools*

*Bloodflower in the Kemper Center*

*Cannas in the Swift Family Garden*

*Evergreen Wisteria in the Temperate House*

## October

*Fall color all over the Garden Grounds*

*Gourd Walk in the Kemper Center*

*Sassafras Grove in the Mausoleum Grounds*

*Mums in the Japanese Garden*

*Crinium in the Bulb Garden*

# WHEN GOOD PLANTS GO BAD

*by Kimberlie McCue, Ph.D.*

Anyone who has ever planted a garden has encountered weeds, the uninvited guests among the planned beauty of the garden. But with a little mulch, a spritz of herbicide, and old-fashioned pulling, these garden nuisances can be kept in check.

Invasive weeds, however, are something else altogether. They are plants run amok, spreading out into the landscape silently and swiftly, displacing native wildflowers, engulfing wooded areas, altering ecosystems, threatening endangered species, and causing great economic and ecological harm.

Where do these invasive plants come from? Surprisingly, many of the plants now causing problems were intentionally imported to be used in gardens, for landscaping, or to provide wildlife habitat and erosion control. But when freed from the natural enemies that kept them in check in their place of origin, they became quite aggressive.

Most non-native plants cause no problem, but about 10 percent become invasive and cause excessive damage: over $137 billion annually in losses to agriculture, forestry, fisheries, and the maintenance of open waterways! Fully 2.6 million acres of our national parks have become infested, and nearly half of endangered species in the U.S. are at risk because of invasive species.

The Missouri Botanical Garden and the Nature Conservancy have taken a leadership role in limiting the spread of invasive plants and the threats they pose to native species. An international workshop held at the Garden in 2001 produced the Codes of Conduct Relevant to Invasive Species, which informs practices in all areas of the Garden. (See the Codes and read about the workshop at www.mobot.org/invasives.) This work involves working closely with the Horticulture Co-Op of Metro St. Louis to address the issue from the perspective of the horticulture industry and with the Missouri Department of Conservation to develop educational and instructional material for both lay people and professionals.

PHOTO COURTESY LADUE GARDEN CLUB

*Members of the Ladue Garden Club work to eradicate bush honeysuckle.*

## What You Can Do

Recently, the Garden and the Nature Conservancy have begun to develop materials for a NIMBY program: No Invasives in My Back Yard. As a home gardener, you can be part of the effort to stop invasive plants! Don't bring exotic plants home from other regions; never dump aquarium plants into natural waterways; read wildflower and bird seed mixes to know what you are putting in your yard and garden.

Educate yourself on which plants are invasive in your area and grow only non-invasive species. In St. Louis, some of the worst invasive plants are (pictured above from left):

1 Bush honeysuckle *(Lonicera maackii)*
2 Purple loosestrife *(Lythrum salicaria)*
3 Multiflora rose *(Rosa multiflora)*
4 Garlic mustard *(Alliaria petiolata)*
5 Japanese honeysuckle *(Lonicera japonica)*

If you find these plants growing in your yard, remove and destroy them, and volunteer at your local park or wildlife area to help remove invasive species.

In the last two years, the Ladue Garden Club has done just that. With help from the Garden's Litzsinger Road Ecology Center staff, Mary Voges and Malinda Slagle, the garden club identified bush honeysuckle as particularly pervasive in the woodsy enclave of Ladue and set about eradicating it, one yard at a time (see photo at left).

For more information on how to identify and remove these plants, and for ideas on suitable replacements call the NIMBY hotline 1-800-315-6307 or call (314) 577-0865.

PHOTO COURTESY JAN SALICK

*Wayne Law collecting Himalayan snow lotus.*

A recent publication by Missouri Botanical Garden curator Dr. Jan Salick and graduate student Wayne Law of Washington University has been receiving a lot of attention from the press, including an Associated Press wire story that was picked up by over 50 newspapers, and an article in *The New York Times*. The study, funded through a grant from the National Science Foundation, demonstrated that the size of the Himalayan snow lotus (*Saussurea laniceps*) has decreased over the years as a result of commercial harvest by humans. Local residents pick the biggest of the plants, an important remedy in traditional Tibetan medicine for "women's diseases," leaving only the smaller plants to go to seed. Over the past 100 years, the plant has lost almost four inches in height!

"Selection caused by humans is a powerful force, whether conscious or unconscious, artificial or natural," write Salick and Law. Similar phenomena have been reported for a number of different kinds of fishes, but this study marks the first documented case of a plant population being "overfished." Dr. Jan Salick, part of the Garden's William L. Brown Center for Plant Genetic Resources, is a specialist in ethnobotany, the study of the interaction of people and plants. She is working with the Nature Conservancy and the Chinese government to help persuade harvesters to wait until the plant spreads its seeds before picking, and to preserve Tibetan sacred sites where the few remaining large plants grow.

PHOTO COURTESY CHRIS BIRKINSHAW

*Solo Rapanarivo, Jacky Andriatiana (from PBZT), and Christian Camara (from MBG-Madagascar) with the three* Schizolaena tampoketsana *saplings.*

## Saving One Tree at a Time

In April, Missouri Botanical Garden employees planted three strong saplings of *Schizolaena tampoketsana*, known locally as Sohisika, at the Parc Botanique et Zoologique de Tsimbazaza (PBZT) in Antananarivo, Madagascar. Sohisika is one of the most threatened plants in the world with just 120 adult trees known in four tiny forest fragments in central Madagascar.

The saplings were collected as seedlings by MBG botanists as part of a National Geographic Society project to research and implement conservation action plans for a selection of Madagascar's rarest plants. They were grown into saplings by the commercial nursery Phyto-logic. Although the Missouri Botanical Garden has recently begun a project to conserve the habitat of Sohiska, funded by Conservation International, success is by no means certain, thus the plants at PBZT serve as a safety net.

PHOTO COURTESY MEREDITH GOSEJOHAN

*Nathan Helton (NPS biologist at Obed NSR) and Meredith Gosejohan looking at the seeds.*

## Protecting Our National Parks

As part of the National Park Service Seed Collection Project, the Missouri Botanical Garden and Center for Plant Conservation are working to collect seed of 12 species of federally listed plants in area national parks. The NPS Seed Collection Project is a nationwide effort to collect samples of rare and at-risk plants from U.S. national parks in order to preserve these plants and/or restore them through later reintroduction.

The first collection of the year was in Springfield, Missouri, from Wilson's Creek National Battlefield. There, conservation biologists, Dr. Kimberlie McCue and Meredith Gosejohan collected seed from *Physaria filiformis* (syn. *Lesquerella filiformis*), the Missouri bladderpod. Park botanist, Craig Young was optimistic about the status of the Missouri bladderpod, stating that this was the highest number of flowering plants present in many years. That's good news for the future of this native plant, and 2,000 seeds were collected and preserved for the future.

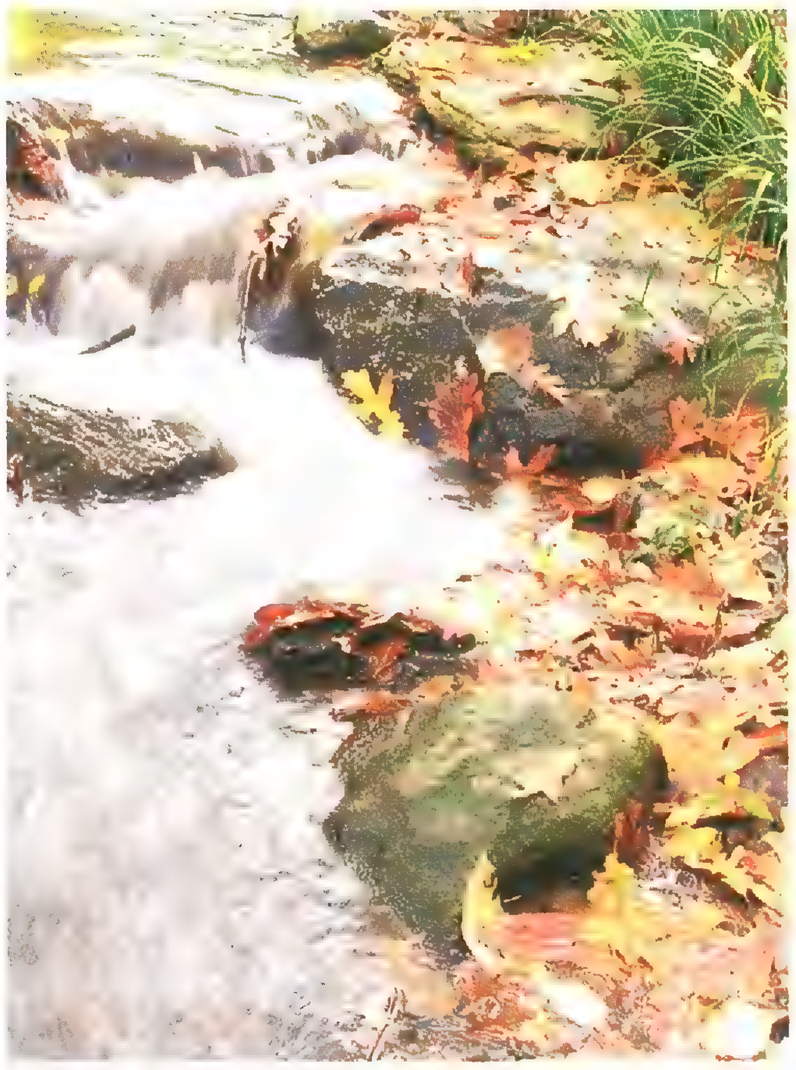


PHOTO BY JAMESLY LANE

## Tribute and Memorial Gift Program

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding tribute giving opportunities at the Garden, please call (314) 577-5118. You can also make a tribute gift online at our website, www.mobot.org.

# TRIBUTES

May–June 2005

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Missouri Botanical Garden Weekday Docents

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Dr. Barbara Barnum
Mr. and Mrs. John Henshall
Ms. Suzanne Horgen
Ms. Margit Jackson
Ms. Barbara Kohm
Miss Suzanne J. Miller
Ruwitch Family
The Theta Sigma Association

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Mr. and Mrs. Terry G. Flieg
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Nancy and Larry Kirchhoff
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Mr. and Mrs. Blanton Whitmire

**Mr. Bruce Campbell**
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Ms. Donna Kessel and Family

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Mr. and Mrs. Wayne Clark

**Mrs. Vivian Heubner**
Mr. and Mrs. Donald Boehm

**Ms. Judith A. Hoffman**
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**B. Thomas Horace**
Dave and Ellen Harmon
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**Ms. Mollie Hughes**
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**Julie**
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Joan Silber

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Deby and Rick Halpern

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# CELEBRATE
# THE HARVEST

*Oversize Veggies and great new cookbooks with the appropriate tools attached are just a few of the items available at the Garden Gate Shop to help you celebrate the season's bounty!*

## GARDEN GATE SHOP

4344 Shaw Blvd. • (314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds benefit the Garden.

## SPECIAL EVENTS

### Sales

**Sep. 14 and Oct. 15**
Members save 20% on everything at the Garden Gate Shop and the Little Shop Around the Corner

**Sep. 23–25** Members save 20% off bulbs

**Oct. 8–9** Members save 20% off orchids

### Trunk Shows *10 a.m. to 5 p.m.*

**Sep. 10–11** Bee Clare (jewelry)
Kabuki Closet (vintage kimono show and sale)

**Sep . 17–18** Front & Center (jewelry)
Yael Shomroni (pottery)

**Sep. 23–25** Silver Cat (jewelry)

**Oct. 8–9** Del Sol (jewelry)

**Oct . 14–16** Silver Cat (jewelry)

**Oct . 22–23** Nancy Helmer (jewelry)
Yael Shomroni (pottery)

**Oct . 29–30** Down to Earth Gift Baskets (gourmet gifts)
Lacey (jewelry)

### Book Signings

**Sep. 10** Dr. John Oldani will lecture and sign his new book *Sweetness Preserved: The Story of the Crown Candy Kitchen.* 11 a.m. to 1 p.m.

**Sep. 17** Children's author, Connie McIntyre, will read from and sign her books *Flowers for Grandpa Dan* and *Upside Downside Inside Out: Poems about Being a Kid.* noon to 2 p.m.

**Sep. 24** Kristin Joy Pratt-Serafini book signing. noon to 2 p.m.

**Oct. 14** Barbara Perry Lawton book signing. noon to 2 p.m.

**Oct. 20** Eric Brende will read from his book *Better Off: Flipping the Switch on Technology.* noon to 1:30 p.m.

**Nov. 5** Carol Grove, author of the new book, *Henry Shaw's Victorian Landscape* will lecture and sign books. noon to 2 p.m.

### Food Tasting

*every Saturday, 12:30 to 3:30 p.m.*

**Mrs. Rose Kring**
Mr. and Mrs. Frank N. Gundlach
Barbara and Mike Newmark
Mr. and Mrs. Abe Schultz

**Leona Kroeger**
Ms. Jeanne Roberts

**Mrs. Violet Lambath**
Mr. and Mrs. Rob Williams

**Mr. Robert B. Lauck**
Mr. and Mrs. John F. Schmidt

**Mr. Charles A. Lee, Jr.**
Mrs. Dorothy J. Heagney
Ms. Ann Kurtz

**Dr. Maria M. Leskowski**
Dr. and Mrs. Gary Kulak

**Mr. Ward K. Levery**
Mr. and Mrs. Walter G. Stern

**Mr. Alan B. Lewin**
Mrs. Joseph Ruwitch

**Ida M. Liams**
Mrs. Denita Douglas

**Mr. Al Loeb**
Mrs. Sherman LeMaster

**Mr. Paul Londe**
Morton and Norma Baron
Mrs. Vida Fabric
Mrs. Ruth Peiter
Mr. Jay Reiter
Mrs. Ellen Ross
Bob and Margie Summers

**Mrs. Lopez**
Mrs. Jane B. Birge

**Mrs. Gloria M. Lund**
Mr. and Mrs. Lloyd A. Palans

**Rhonda Luther**
Charles and Dolores Bieger

**Mr. Paul Lyons**
The Garden Appreciation Club of St. Louis

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Mr. and Mrs. Calvin A. Case, Jr.
Mrs. James Grundel
Mrs. Doris Johnston
Ms. Jackie Juras
Mr. Glenn E. Kopp
Kathleen and Jack Lane
Mr. Joseph P. Logan
Mr. and Mrs. Jack B. McKee
Mr. and Mrs. John R. Murphy

**J. Marshall and Ernestine Magner**
Dr. and Mrs. A. N. Filippello

**Mrs. Ursula Manche**
Mr. and Mrs. Robert M. Kaiser

**Mrs. Kathryn McGuffey**
Twenty Five Gardeners Club of Kirkwood

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Miss Phyllis McPheeters

**Mrs. Lillian E. Minges**
Irene and Sue Miller

**Mrs. Marion Morris**
Mrs. Grace M. Bennett

**Mr. Charles Murphy**
Dr. and Mrs. Gary Kulak

**Mrs. Ruth Ann Nichols**
Twenty Five Gardeners Club of Kirkwood

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**Mrs. Marion Nies**
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Ms. Peggy W. Seessel
Diane and Steve Weinstock

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Twenty Five Gardeners Club of Kirkwood

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Marge and Martin Jaffe

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Cindy and Dick Bowes
Mrs. Laura Bryant
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Ms. Leora Brown
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Ms. Laura Gilpin
Ms. Charlotte Glynn
Mr. Dennis Lamport and Ms. Jill Rossiter
Ms. Alvera McAtee
Ms. Jean Rossiter
Ms. Eila Samek
Ms. Lorraine Tracy
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**Mr. Elmer Schiesl**
Mr. and Mrs. J. Mark Lashly

**Mothers of Tony and Becky Schuham**
Mr. Alan M. Gerstein and Dr. Ilene G. Wittels

**Mrs. Bertie Scolnik**
Mr. and Mrs. Jim Tucker

**Joan Seibert**
Mr. and Mrs. Merle Busch

**Mr. Levi Servais**
Carl and Norene Heinemann
Ms. Jackie Juras
Mr. and Mrs. Roger Sandboth
Mrs. Irma Servais
Ms. Judy Servais

**Barbara A. Simpson**
Gloria J. Fay

**Baby Sister**
Dr. and Mrs. Tom Schroyer

**Harriett Slezak**
Ms. Mildred Meyer

**Mr. Armyn Spies**
Ms. Jackie Juras

**Mr. Floyd Spree**
Miss Eileen Reis and Miss Susan Reis

**Mrs. Cora Sullivan**
Mr. and Mrs. Thomas R. Jonas
Mr. and Mrs. Steve Lenk

**Mrs. Betty Towne**
Twenty Five Gardeners Club of Kirkwood

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Dr. Rebecca Gould Karlen
Joia

**Don and Kenny Wachter**
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**Mrs. Josephine Chasnoff Webber**
Mr. and Mrs. Edward B. Cook

**Mr. Charles A. Weber**
Mr. and Mrs. Donald R. Hemmer and Family

**Mr. Leroy Weinhold**
The Andy Kocot Family

**Mr. James J. Werner**
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Mrs. Lois S. Albrecht
Mrs. Lois L. Chesterson
Mrs. Mary W. Cooper
Ms. Christy Franchot James
Mr. and Mrs. Tom Joseph

**Martha Wikgren**
Mr. and Mrs. Kevin Miles

**Ms. Pun Wilson**
Mr. and Mrs. Thomas Anderson
Ms. Mary F. Banks
Mr. and Mrs. Matthew M. Bauer
The Honorable Joan Bray
Mr. and Mrs. Douglas Cormack
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Mr. and Mrs. Robert J. Gemmett
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Mr. and Mrs. Steve Goldring
Mr. Barry Hieb
Mr. and Mrs. Adam D. Hirtz
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Ms. Vicki Kunkler
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Miss Mary Jane Fredrickson
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**Ms. June Zewiski**
Ms. Jackie Juras
Missouri Botanical Garden Development and Membership Division

**Mr. Frank Zielinski**
Mrs. Marian Dean

**Ethel M. Zucker**
Ms. Linda Mead

PHOTO BY JAMESLY LANE

## Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Patricia Arnold, Director of Development, at (314) 577-5120 for further information and a complimentary brochure. Visit our informative new website at www.mobot.org. Click on Membership, then Planned Giving Guide.

* deceased

## Commemorate Your Special Occasion

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, including birthdays, retirements, anniversaries, graduations, holidays and special accomplishments, as well as final memorials. Place your brick in the Members' Entry Court of the William T. Kemper Center for Home Gardening today! Please see the enclosed envelope flyer. For more information, call (314) 577-0874.

# MEMBERS' ENTRY COURT

*Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from May 15, 2005 through July 15, 2005.*

**Pamela and Adrian Baker**
Mr. and Mrs. Adrian Baker

**Shirley E. Bell**
Ms. Cynthia B. Neville

**Russ Bley, Jr.**
Russ Bley, Jr.

**Barbara Norman and Sam Drey**
Mr. and Mrs. Norman Drey, Jr.

**Susan and Stephen J. Hall**
Mr. and Mrs. Stephen J. Hall

**Caryn G. Hasselbring MD**
Caryn G. Hasselbring, MD

**Pat and Phil Henderson**
Mr. and Mrs. Phil Henderson

**Tom and Renee Hennekes and Family**
Tom and Renee Hennekes

**H. Randall Herrington**
Mr. R. C. Herrington

**Patrick and Nena Johnston**
Mr. and Mrs. Patrick Johnston

**Virginia Lehr**
Miss Virginia Lehr

**Mary Kay Mayer**
Mary Kay Mayer

**Betty A. Melby**
Mrs. Betty A. Melby

**Dr. Frank and Theresa Morrison**
John and Elizabeth Morrison

**Walter and Cynthia Metcalfe**
Mr. and Mrs. Walter L. Metcalfe

**Harry and Jenie Mueller**
Harry and Jenie Mueller

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Mr. Paul Paulochik

**John Reiner**
Steven and Marsha Puro

**Schless Family**
Col. (ret.) and Mrs. William F. Schless, Jr.

**Fred and Karen Schneider**
Fred and Karen Schneider

**Sunil B Sengupta**
Mr. Alok Sengupta

**Amy Caudy**

**Alan Shutko**
Mr. Alan Shutko and Ms. Amy Caudy

**Thom and Judy Sowers**
Thom and Judy Sowers

**Frank Spielberg**
Mr. Frank Spielberg

**Jim and Carol Squires**
Jim and Carol Squires

**Josee N. Usher**

**David R. Usher**
Josee N. and David R. Usher

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**Ryan**
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Richard and Patricia Young

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Dorothy Rice

**Arthur Lincoln Aydt**
Mrs. Wilma Aydt

**Linda Jane Blythe**
Mrs. Linda Jane Blythe

**Don Carter and**

**Ann Carter Messner**
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**Julius E. Giebler**
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Drs. Tom and Mary Hastings

**Isabella Gail Haus**
Linda G. Leonard

**Ben and Brenden Besse Grammy**
Claudia and Jennifer Hayduck

**Hilmer Family**
Gary and Jean Hilmer

**George Joan and Linda Hobson**
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**Jack and Grace Kolar-Burden**
Mrs. Carol Kolar

**Wallace Klein**

**Norma Vavra**
Mr. Wallace Klein and Mrs. Norma Vavra

**Clint and Sarah McCann**
Clint and Sarah McCann

**Bob and Cathy Tweed McNulty**
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**Tyler Andrew Madison**
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**Rosemary Mechler**
Mrs. Beth Reilly

**Carol Montgomery**
Carol Montgomery

**Tatom Naecker Family**
Jacqueline Tatom and Paul Naecker

**Richard and Charlotte Norton**
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**Grant William Ott**
Ms. Linda Ragsdale

**Axeman and Puhr Families**
Ms. Kathleen M. Puhr

**Bettye Trelford Smith**
Mr. A. Howard Smith

**Columbo Archy Trinity**
Mr. Ted McMinn

**Brian and Cathy Waddell**
Brian and Cathy Waddell

**Barry and Raye Zeigler**
Barry and Raye Zeigler

For additional information regarding the Garden's brick program, please contact Fay Orr at (314) 577-0874 or visit our website, www.mobot.org.

# fall into fun!

The Garden's exciting early childhood education programs continue to grow this fall and winter. Enjoy the changing seasons as you explore the Garden with your child or grandchild. Register today!

## Strollerobics

A fun, low-impact workout for all fitness levels, Strollerobics is an eight-week course for parents and their children in strollers. Participants push strollers along a mostly flat path around the Garden grounds, highlighting areas of interest to young children, and stopping to do lunges, squats, sit-ups, and jumping jacks. Classes begin the week of September 12 and are offered every weekday from 9:30 to 10:30 a.m. Class size is limited to 16 participants. Cost is $55 per adult for an eight-class session ($50 for Garden members).

## Little Sprouts

ages 2–3

Share the wonders of nature with your child or grandchild. Over the course of the class you and your "little sprout" will learn about different parts of a plant, create nature art, discover hidden gardens, and make new friends. Each class will include a walk, indoor hands-on activities, songs, a story, and snack. Space is limited, so please register early. Little Sprouts is offered Mondays or Tuesdays for six weeks starting on September 19 or 20. Cost is $108 ($96 for Garden members).

## Garden Path

ages 4–5

Classes for preschoolers (ages 4–5) and parents or grandparents offers a choice of two locations! The Garden will offer a fall series of six classes (two per month) and a winter series of three classes (one per month). Starting September 8 or 11, each class will be taught on Thursday from 10 to 11:30 a.m. or Sunday from 1 to 2:30 p.m. The fall series will cost $90 ($78 for members), and the winter series will cost $45 ($38 for members). Or sign up for individual classes at $16 each ($14 for Garden members). Call (314) 577-5140 for more information and a brochure.

## Generations Together

ages 65+

Intergenerational programs are designed for seniors and their school-aged grandchildren ages 6–12 with special crafts to inspire and increase their interest in nature. Call (314) 577-5140 for details about the three classes available on Saturdays this fall.

## Volunteer for Kids

How can school children living in the humid Midwest understand Desert Life? Why should they Celebrate Seeds?

Enthusiastic volunteer instructors are needed to help the Garden's Education Division offer these programs to the nearly 120,000 students who participate each year. Instructors volunteer up to four hours, one day a week from September through May, and attend a monthly meeting on the second Tuesday of the month. Training begins immediately and scheduling is flexible. Members are invited to sign up now by calling Jackie Juras at (314) 577-5187 during weekday business hours, or e-mail jackie.juras@mobot.org.

Missouri Botanical Garden Library
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# CALENDAR OF EVENTS

ARTWORK BY MATT

## September

**Sat.-Mon., Sep. 3–5**
Japanese Festival. See page 6.

**Tues.-Fri., Sep. 6–9**
Butterfly House Home School Academy: Ladybugs. Ages 4 to 7. Call (636) 530-0076, ext. 13. BH.

**Sat., Sep. 10**
Shaw Nature Reserve Ick Day! See page 9. SNR.

**Sun., Sep. 11 to Sun., Oct. 30**
"Portraits from the Prairie," opening at the Bascom House. See page 9. SNR.

**Mon., Sep. 12 to Fri., Nov. 11**
"Simplicity in the Natural World," an exhibition of floral art photography by Dan Richter. RC.

**** Thurs., Sep. 15**
Members' Day: The Beauty of Bulbs. 11 a.m. See page 6. RC.

**Sat. & Sun., Sep. 17 & 18**
Fourth annual Energy and Recycling Festival at the EarthWays Center. See page 10. EC.

**Sat., Sep. 17**
Butterfly House BUZZ: Monarchs, the Great Migration. See page 11. BH.

**Sat., Sep. 17 to Sun., Oct. 30**
Ride the Wilderness Wagon on Saturday and Sunday afternoons (weather permitting) at the Shaw Nature Reserve. For information, call (636) 451-3512. SNR.

**Wed., Sep. 21**
Flutter into Fall Fashions at the Butterfly House. See page 11. BH.

**Sat. & Sun., Sep. 24 & 25**
Gateway West Gesneriad Society show and sale. 9 a.m. to 5 p.m. RC.

**Sat., Sep. 24**
Classic 99 KFUO's "Rhapsody In Bloom." Light music and dance at several locations throughout the Garden. 10 a.m. to 3 p.m. RC.

**Sat. & Sun., Sep. 24 & 25**
Greater St. Louis Dahlia Society show. Sat.: noon to 5 p.m. Sun.: 9 a.m. to 5 p.m. RC.

## October

**Sat., Oct. 1 to Sat., Dec. 31**
Missouri Botanical Garden 2006 calendar display. Calendars available for purchase in the Garden Gate Shop. Proceeds support the Garden. RC.

**Sat. & Sun., Oct. 1 & 2**
Fourteenth annual Best of Missouri Market. See page 7.

****Tues., Oct. 4**
Tower Grove Auxiliary scenic fall day-trip to Louisiana, Missouri. See page 6.

**Wed., Oct. 5**
AARP Celebration of Life: exhibits of senior services and products, attendance prizes, awards, musical entertainment, question and answer sessions, and health screenings. RC.

**Sat., Oct. 8**
Buttlerfly House BUZZ: Spiders. See page 11. BH.

**Sun., Oct. 9**
Fourth annual Harvest Festival at Shaw Nature Reserve. See page 9. SNR.

**Thurs., Oct. 13, 7 p.m.**
Green Building Public Lecture. See page 10. RC.

****Fri., Oct. 14**
Members' Day: Sculpture Tour of the Garden, 11 a.m. See page 6. RC.

**Sat., Oct. 15**
George Washington Carver Garden opening. See page 5.

**Sat., Oct. 22**
Butterfly House "Boo-tterflies" Halloween party. See page 11. BH.

**Sat. & Sun., Oct. 22 & 23**
Mid-America Regional Lily Society sale. 9 a.m. to 5 p.m. RC.

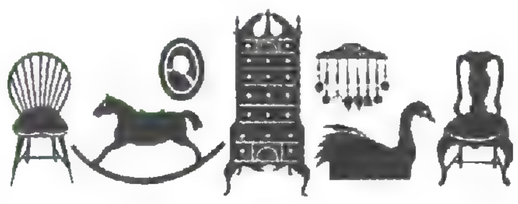
Orchid Society of Greater St. Louis show and sale. 9 a.m. to 5 p.m. RC.

Public tours at the EarthWays Center begin at 11 a.m., noon, 1, and 2 p.m. $2 (free for Garden members and children 12 and under). EC.

**Sat., Oct. 29**
Tower Grove House reopens. See page 5.

**Sun., Oct. 30**
Eduardo Tami performs Argentine tango music with a flute, piano, and guitar trio to launch the fall season of Classic 99's "From the Garden, Live"® concert series, broadcast live on 99.1 FM. Noon. Free, but tickets required. Call (314) 725-0099 or visit www.classic99.com. RC.

LITTLE SHOP AROUND THE CORNER
ANTIQUES • HOME & GARDEN FURNISHINGS



Whether you're shopping for that perfect gift or looking for a worthy cause to accept your donation, please remember the Little Shop Around the Corner. It's one more tax-deductible way to support the Garden!

4474 Castleman, Saint Louis, Missouri 63110
(corner of Shaw and Vandeventer) • (314) 577-0891
Hours: Tues. through Sat., 10 a.m. to 4 p.m.

## the key

| | | | |
|---|---|---|---|
| CA = Cohen Amphitheater | GGS = Garden Gate Shop | MC = Monsanto Center | SP = Spink Pavilion |
| CL = Climatron | JG = Japanese Garden | RC = Ridgway Center | ** denotes a members-only event. |
| EC = EarthWays Center | KC = Kemper Center | SNR = Shaw Nature Reserve | $ denotes an additional fee. |

*All events are free with admission or membership unless otherwise noted.*

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The 14th annual market is bigger and better than ever with over 120 new and returning vendors.
See page 7 for details.

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Sophia M. Sachs Butterfly House (636) 530-0076
15193 Olive Blvd., Faust Park, Chesterfield, MO 63017

EarthWays Center (314) 577-0220
3617 Grandel Square, St. Louis, MO 63108

Little Shop Around the Corner (314) 577-0891
4474 Castleman Drive, St. Louis, MO 63110

Shaw Nature Reserve (636) 451-3512
Hwy. 100 & I–44, Gray Summit, MO 63039

**Hours**
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Open until 8 p.m. on Wednesdays until Labor Day. Parking is free.

**General Admission***
Adults age 13–64....$7 (seniors 65+.....$5)
Members and children 12 and under.....free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings from 9 a.m. to noon (unless special event pricing applies).

** Special events may require an additional fee.*

**Editor:** Elizabeth McNulty
**Designer:** Ellen Flesch
**Cover photo:** Boxwood Garden entrance, Jamesly Lane
**Back cover photo:** Best of Missouri Market, Diane Wilson

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MISSOURI BOTANICAL GARDEN

# Bulletin

November/[illegible]05 Vol. 93, No. 6

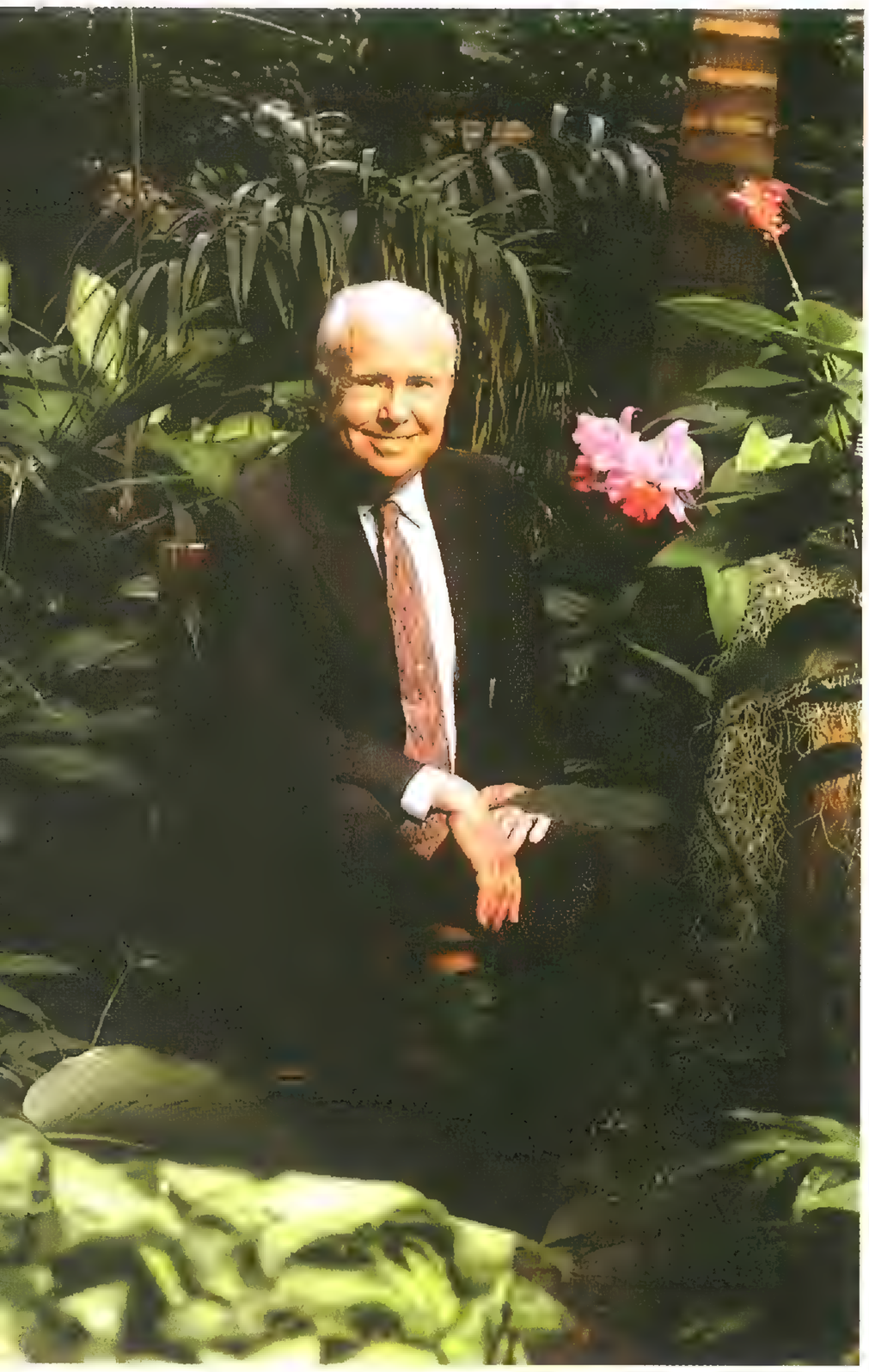

PHOTO BY PETER HOWARD

*To discover and share knowledge*
*about plants and their environment,*
*in order to preserve and enrich life.*

*mission of the Missouri Botanical Garden*

# from the director...

To everything there is a season, and this autumn brings many changes to the Garden. In May 2003, we announced the *Stewards of the Earth* campaign for the Missouri Botanical Garden. This $71 million drive, strengthening the Garden's critical role in establishing St. Louis as a world leader in the plant sciences and enhancing conservation around the globe, draws to a close December 31, 2005.

We are very grateful for the support received over the past five years, and many campaign projects are already underway or even completed: the newly renovated Tower Grove House, the George Washington Carver Garden, and opening next April, the Doris I. Schnuck Children's Garden—a Missouri Adventure. Naming opportunities still exist in these and other projects, so please consider a gift to the campaign as part of your year-end giving.

Best of Missouri Market this year was bigger and better than ever with four tents of vendors and a record-setting number of new memberships. Thanks to Nora Stern and Ellen Dubinsky for their continued leadership of this signature Garden event.

This fall, two very important members of the Garden's senior management team are retiring. Dr. Shannon Smith, Director of Horticulture, retired in October after 14 years of overseeing a period of tremendous growth and change. We are very grateful for his contributions over the years and wish him the best in his retirement. Dr. Luther Williams will retire at the end of the year as the William T. Kemper Director of Education and Interpretation and Senior Advisor to the Director. Williams has been instrumental in the Garden Education Compact, the construction of the Commerce Bank Center for Science Education, and the Carver Garden, and we are very grateful for his leadership.

We hope you will again choose to spend the holiday season with the Garden, enjoying the wonderful fall foliage on a stroll through the Japanese Garden, or bringing your family and friends down to the perennial favorite Gardenland Express. I hope to see you there.

Peter H. Raven

Peter H. Raven, *Director*


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## editor's note...

We don't always get the autumn of our dreams here in the Midwest, but it's the intense variation that keeps things interesting. This year's fall seemed to start early following the drought conditions with some trees dropping leaves in late summer from stress. But others look like they are right now turning the most fantastic hues. While St. Louis gardeners know that average first/last frosts are October 15 and April 15, historical data show frosts as early as September 28 and as late as mid-May. Maybe it's that unpredictability that makes St. Louis gardeners adopt a more rakish, devil-may-care attitude. And yet, with all its challenges (or perhaps because of them), gardening is good for what ails you. Recently horticultural therapy has been gaining momentum as yet another way to keep fit, active, and mentally acute into old age (see page 16). So long as one has health to enjoy it, age and retirement bring the benefit of time. Thus, what better time of the year than the holidays to take the kids and grandkids for the day and treat them to lunch in Sassafras and a visit to the holiday flower and train show? Or to breakfast with Santa? Or the Chanukah festival of lights? Or Kwanzaa? We lead busy lives, but at the holidays we all strive to make time for friends and family, and to make lasting memories. What better place than at the Garden?


Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

*The statue* Victory of Science Over Ignorance *is the symbol of the* Stewards of the Earth *campaign.*

Only a few weeks remain to join in the campaign "to preserve and enrich life" as a Steward of the Earth. The campaign concludes on December 31. Those who have made gifts to the campaign have realized the satisfaction of watching their gifts bear fruit. Most recently, the George Washington Carver Garden opened October 15 and the newly reinterpreted Tower Grove House opens on October 29.

Those who make gifts now can look forward to the opening of the Doris I. Schnuck Children's Garden in April 2006. And they will know their gifts supported vital restorations in historic and famous areas of the Garden, such as the replacement of Rangui posts in Japanese Garden Lake and tuck-pointing of the Museum Building and Linnean House.

All who give to the campaign will be recognized as Stewards of the Earth in the Honor Roll of Donors to be published next year. But a few opportunities remain for special recognition. In the Doris I. Schnuck Children's Garden, for example, opportunities begin at $10,000 each. These gifts may be made with pledges that can be paid over five years. Some of the remaining naming opportunities are:

Lock & Dam (2) and Rustic Log Benches (6) – $10,000 each
Wood & Iron Benches (12) – $15,000 each
Discovery Platform – $50,000

Many donors who cannot make large cash gifts are surprised to discover the tax advantages of making gifts of stock, property, and other types of assets they have accumulated. Examples of these types of gifts include:

**Securities** – The best stocks to donate are those that have increased in value, particularly those producing a low yield. This gift will provide an immediate charitable tax deduction, as well as allowing you to avoid capital gains tax.

**Gift Annuities** – If you are aged 50 or older, you may transfer a gift of $5,000 or more to the Garden and receive fixed income for life, as well as an immediate charitable tax deduction for a portion of the gift.

**Retirement Plan Assets** – You can designate the Garden as your retirement account primary beneficiary, or transfer it to a deferred giving arrangement that will pay income for life to a friend or family member, after which the remaining assets pass to the Garden.

**Life Insurance** – You can donate a paid-up life insurance policy to us or simply name us as the beneficiary. To qualify for the federal charitable contribution deduction on a gift of an existing policy, you would name us as owner and beneficiary.

**To discuss these and other ways of giving, as well as naming opportunities, call Director of Development Patricia Arnold at (314) 577-5120.**

PHOTO BY TIM PARKER

## Mrs. William Barnes

A Henry Shaw Associate since 1969, Diane Barnes was interested to learn of the *Stewards of the Earth* campaign. "I practically grew up at the Garden," says Diane, "and I wanted to give back to the institution I've enjoyed so much." So she discussed all the options with the Garden's staff. "We're not rich. We saved all our lives and my late husband made some wise investments, so naturally I wanted the gift to do the most good," says Diane. She decided to make a gift annuity. "And it was so easy! Patty [Arnold] and her staff were so efficient. They did a wonderful job." She continues "God gave us a beautiful planet, and we should preserve that beauty."

PHOTO BY KRISTI FOSTER

## Mrs. Gretta Forrester

As a member of the Intoximeters, Inc. family, headquartered here, and as current president of the Crosby Corporation, Gretta Forrester believes in the future of St. Louis. It is this belief that drives her support of the Missouri Botanical Garden. "The Garden is one of the most vibrant institutions in the city," says Gretta. "It adds value to living in St. Louis. I also enjoy visiting the Garden with my children and grandchildren." A Henry Shaw Associate since 1970, Gretta decided to make a contribution to the *Stewards of the Earth* campaign because she knew her gift would be used "efficiently and effectively" to keep St. Louis strong.

PHOTO BY KRISTI FOSTER

## Mrs. Georgia Van Cleve

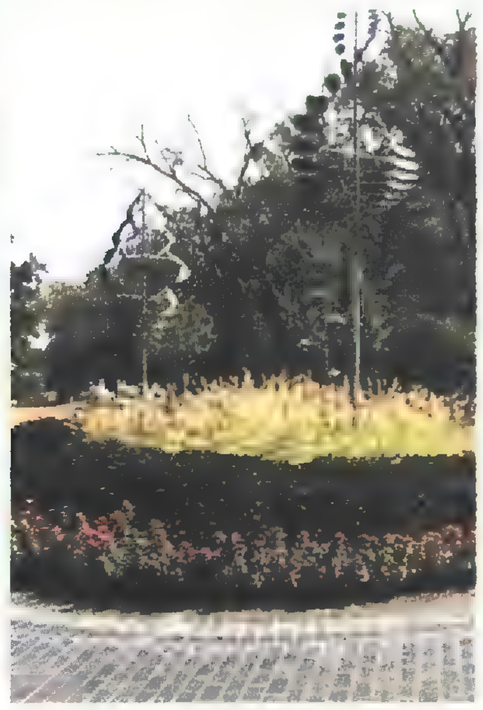
"I've loved the Garden since I was a little girl!" says Georgia Van Cleve. "It's a beautiful place to go and take my out-of-town company, friends, and family." A Henry Shaw Associate since 1975, Georgia decided to make a gift to the *Stewards of the Earth* campaign, citing her grandchildren's excellent experience at Camp MBG this summer. She is also motivated by the big picture: "I think the research is so important," says Georgia. "Think of the situation in New Orleans, the destruction of the wetlands there that had previously protected the city. We really need to pay attention to biology, ecology, to nature."

PHOTO BY TRENT FOLTZ

## Donate today!

Donating to the *Stewards of the Earth* campaign is fast, easy, and covenient. Call Director of Development Patricia Arnold at (314) 577-5120 today.

## Building Memories Brick by Brick



The bricks that were laid when Henry Shaw built his garden more than 145 years ago endure today, testaments to his legacy. Through the *Stewards of the Earth* campaign, you can leave a legacy in brick, helping to perpetuate what Shaw left for our enjoyment.

Those who love the garden may place named bricks in the Entry Court at the William T. Kemper Center for Home Gardening. The bricks can be inscribed to recognize your support for the campaign or to honor someone special to you. You may wish to remember a family member who loved this beautiful place, or want your children to recall the times you spent here together.

Traditional clay bricks are offered for gifts of $500; they can be inscribed with names of up to 28 characters. A campaign gift of $1,000 will reserve a bronze brick cast with your handwritten signature or select a font from our list. Bricks are 4" by 8".

Less than 1,700 of the allotment of 4,700 bricks are still available. To have your brick signify your support of the campaign, you must place an order before the campaign concludes on December 31. To place an order or learn more, call Fay Orr at (314) 577-0874 and specify your gift for the *Stewards of the Earth* campaign.

# EVENTS

PHOTO BY DIANE WILSON

***Members' only: Breakfast with Santa***
*Saturday, Dec. 3, 8–10:30 a.m.*
*By reservation only.*
*$16 per person; children under 2 are free.*

*It's an annual tradition: breakfast with Santa at the Garden. But hurry: spaces are limited and this event always sells out.*

## Deck the Halls

*Fri., Nov. 4, 11 a.m., Ridgway Center*
Get in the holiday spirit with our popular holiday decorating presentation. The talented designers from Mary Tuttle's Flowers present "The Art of Living" with the latest ideas and seasonal tips for transforming your home into a welcoming wonderland.

## Holiday Show Preview

*Wed., Nov. 30, 5 to 8 p.m., Ridgway Center*
Membership has its privileges, such as this yearly members-only magical evening viewing of "Gardenland Express." Cash bar, musical entertainment, special holiday menu in Sassafras, and fabulous holiday shopping in the Garden Gate Shop.

## Breakfast with Santa

*Sat., Dec. 3, 8 to 10:30 a.m., Sassafras*
It's an annual tradition: enjoy breakfast, holiday craftmaking, and a visit with Santa at the Garden. Menu includes waffles, scrambled eggs, bacon, hash brown potatoes, biscuits, mini-muffins and danishes. Bring a pair of mittens or a child's hat to donate to a neighborhood charity. Tickets are $16 per person; children under 2 are free. Seating is limited and reservations are required. Call (314) 577-9570, or reserve online at www.mobot.org.

## Holiday Luncheons

*Tues., Dec. 6, or Wed., Dec. 14, noon, Spink Pavilion*
Join the Tower Grove House Auxiliary for our special holiday luncheons with all proceeds to benefit the newly reopened Tower Grove House. Tickets are $25 each and include attendance prizes and admission to "Gardenland Express." Seating is limited and reservations are required. Call (314) 577-9570 to reserve your seat by Monday, November 28.

## Holiday Lights Bus Tour

*Wed., Dec. 7, 3:30 p.m. St. Louis area*
We start at the Garden with a visit to "Gardenland Express." The bus then departs the Ridgway Center at 4:30 p.m. Boxed meals will be served. The tour includes stops at Forest Park, Tilles Park, Anheuser-Busch Brewery, and a very special private residence. We return to the Garden by 8 p.m.
Cost is $50 per person. Seating is limited and reservations are required. Call (314) 577-9570 to reserve your seat by Tuesday, November 29.

## Christmas Bells Are Ringing

*Sat., Dec. 10, 1 p.m., Ridgway Center*
Caroling bells are a hallmark of the season, and the acclaimed Gateway Ringers handbell choir perform holiday music from around the world. It's a treat for young and old alike. Seating is first come, first served.

# GARDENLAND EXPRESS

## *Vintage St. Louis*

HOLIDAY FLOWER AND TRAIN SHOW

November 23 to January 1, 2006

Now returning for a third year, the Gardenland Express annual holiday flower and train show features colorful vignettes, scenes of the cityscape, and new additions—like a six-foot scale replica of St. Louis Union Station. Through this miniature landscape, a variety of theme trains, including a vintage streetcar, chug around historic St. Louis structures such as the giant birdcage from the 1904 World's Fair, the waterfront, and various Route 66 favorites. A tiny video camera attached to one of the locomotives will broadcast a "train's eye view" on television monitors. Vintage cars, tiny people and animals, will dot the countryside and thousands of tiny lights will illuminate the trains, buildings, and tall ficus trees. The six-week show features a rotating display of over 5,000 square feet of colorful blooms—including over 700 poinsettias, as well as cyclamen, amaryllis, fragrant narcissus, begonia, peperomia, kalanchoe, and exotic anthurium.

*Sponsorship support provided by CBIZ Accounting, Tax & Advisory / Mayer Hoffman McCann P.C., and Southwest Bank of St. Louis.*

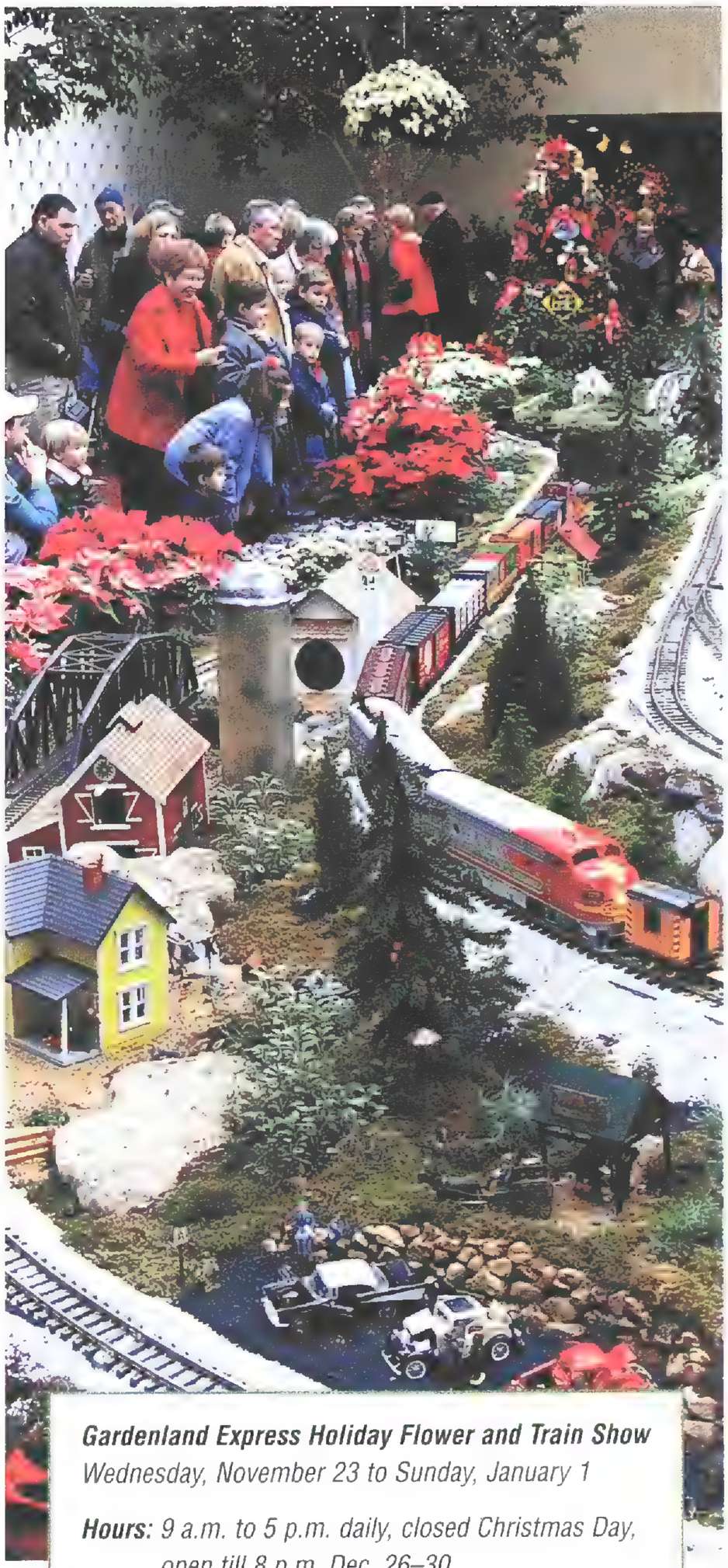


PHOTO BY CHARLES SCHMIDT

***Gardenland Express Holiday Flower and Train Show***
*Wednesday, November 23 to Sunday, January 1*

***Hours:*** *9 a.m. to 5 p.m. daily, closed Christmas Day, open till 8 p.m. Dec. 26–30.*

***Admission:*** *$10 ($7 for seniors), $3 for children 12 and under, Members and their children: FREE*

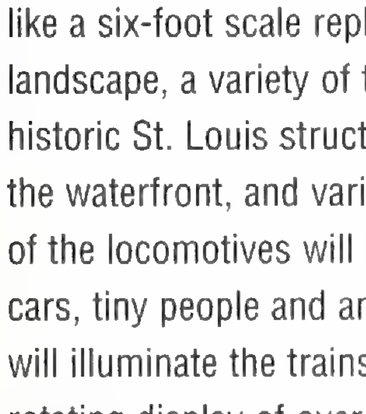


PHOTO BY RYAN RUMBERGER

## Welcome Pat Scace

When Brian LeDoux retired in August after 30 years, he left his final two productions in good hands. Not only does Pat Diehl Scace have all the qualifications one might want in the position—degrees from both the University of Illinois Landscape Architecture program and the American Floral Art School of Chicago—she had also learned from the original—Brian himself—when she worked as his assistant in the early 1990s. "The biggest challenge," says Scace, "is continuing the high caliber of exhibits that Garden visitors have come to expect."

PHOTO BY JAMESLY LANE

## Holiday Wreath Exhibit

Gorgeous wreaths by the finest floral designers. Purchase one via silent auction. Proceeds benefit the Garden. Participants include: Artistry, BitterSweet Botanicals, Eckert's Florist, KaBloom–Kirkwood, Dale Rohman Enterprises, Inc., Schnuck's Floral, Twigs + Moss, and more.

PHOTO BY JAMESLY LANE

## Carols in the Garden

*Saturday-Sunday, December 10–11, 1 to 5 p.m.*
Back by popular demand, enjoy musicians and carolers throughout the Garden, old-time organ grinder and roasting chestnuts, and visit Santa in his sleigh. $10 ($7 seniors). Free for members.

PHOTO BY JOSH MONKEN

## Chanukah Festival of Lights

*Sunday, December 18, noon to 4 p.m.*
Festive music and dance, menorah-lighting, and puppeteers. Israeli *shuk* vendors and the Garden Gate Shop will feature Chanukah merchandise.

PHOTO BY JOSH MONKEN

## Kwanzaa First Fruits

*Wednesday, December 28, noon to 4 p.m.*
Celebrate the first fruits of African-American heritage and culture with storytelling, craft and jewelry workshops, and authentic African drumming and musical performances.

# NEWS

## Best of Missouri Market Thanks

The 14th annual Best of Missouri Market was a great success with over 120 vendors offering the best specialty items from around the region. Each year, the Best of Missouri Market is made possible by the hard work and commitment of our dedicated co-chairs, Nora Stern and Ellen Dubinsky. We extend our sincerest appreciation to Nora and Ellen, the Members' Board, and all volunteers and staff who work to make this event grow each year. This year's Saturday marked a record attendance for the Market.

We would like to recognize the generosity of our lead sponsor, Schnuck Markets, Inc. The Best of Missouri Market is also supported by Central States Coca-Cola Bottling Company, Commerce Bank, Edward Jones, Enterprise Rent-A-Car, IR Climate Control Sector/ Hussmann Corporation, UniGroup, Inc., Waterway Gas and Wash, The May Department Stores Company and U.S. Bank. Additional thanks to the Girl Scout Council of Greater St. Louis, KMOX, Fabick Power Systems, Sachs Electric Company, Ronocco Coffee, and the Great Harvest Bread Company.

PHOTO BY JUSTIN VISNESKY

## Glass in the Garden 2006

The Missouri Botanical Garden has announced the premiere cultural event of 2006: "Glass in the Garden," a site-specific exhibit by glass sculptor Dale Chihuly, presented by Emerson. Dale Chihuly and Chihuly Studios create art with a distinctive style, featuring vibrant colors, fluid and organic forms, and complex groupings of many pieces. His creations are found in more than 200 museums worldwide, including the Metropolitan Museum of Art, the Smithsonian American Art Museum and the Palais de Louvre.

Running six months, from April 30 through October 31, 2006, "Glass in the Garden" will include dozens of sculptures custom-designed for locations both in open air and inside the Climatron. The Garden will be open on Thursday evenings during this time for "Chihuly Nights," which will offer visitors unique, dramatically lit views of the exhibit in the glow of evening.

"We are so pleased and excited to provide the venue for this spectacular exhibit. Dale Chihuly's artistry is remarkable. His ability to turn humble sand into majestic works of blown glass is truly a rare gift," says Dr. Peter H. Raven, Director of the Garden. "The Garden is very grateful to Emerson for its tremendous generosity in helping us to bring this exhibit to the people of St. Louis and the entire region."

## IMLS Grant Awarded

The Missouri Botanical Garden is the recipient of a grant from the Institute of Museum and Library Services to further on-going efforts at building digital library resources. The Garden will create a public-resource computing application, called SciLINC (Scientific Literature Indexing on Networked Computers), that digitizes and automatically indexes vast amounts of scientific literature, providing scientists, students, and the interested public with an integrated Website for the discovery of information about plants.

## Garden Objects on Display

History fans won't want to miss a new exhibit opening October 9 at the Missouri History Museum in Forest Park. This traveling exhibition "Beyond Lewis & Clark: The Army Explores the West" analyzes the army's exploration west of the Mississippi. Several Garden items are on display, including plant specimens collected by explorer John Frémont and scientific equipment of the period—a tube for transporting plant specimens and Garden founder Henry Shaw's original microscope. On view through January 8, 2006.

## New Book on Shaw's Victorian Landscapes

*Henry Shaw's Victorian Landscapes: The Missouri Botanical Garden and Tower Grove Park* by landscape historian Carol Grove tells the story of how an English immigrant created one of America's first botanical gardens,the Missouri Botanical Garden. Foreword by Garden director Dr. Peter H. Raven. Illustrated with photographs from the Garden's Archives. The hardcover book is available for $34.95 at the Garden Gate Shop. Lecture and book signing, Saturday, November 5, noon to 2 p.m.

## Carver Garden, First in the Nation, Opened

On Saturday, October 15, in a ceremony attended by artist Tina Allen, creator of the central sculpture, and actor Robert Guillaume, St. Louis native and "Benson" television star, the Missouri Botanical Garden opened the George Washington Carver Garden, the first of its kind, to the public. This inspirational new garden honors the life and accomplishments of Dr. George Washington Carver, the extraordinary Missouri native scientist who greatly influenced 19th and 20th century agriculture and education.

Funded through the generosity of The Coca-Cola Company, Lawrence L. Cohn, Mr. and Mrs. Arnold Donald, the Harry Edison Foundation and the Edison Family Foundation, and an anonymous donor, the one-and-a-half acre Carver Garden was built by ICR Construction Services of St. Louis, and is designed for peaceful contemplation and learning. It is located on the western edge of the Garden, between the Japanese Garden and the Kemper Center for Home Gardening. Benches and a small amphitheater surrounding the water provide a quiet place to relax. There is also a kiosk for educational instruction and a school curriculum written by Garden educators.

"The addition of the new George Washington Carver Garden creates the opportunity to renew Dr. Carver's legacy for thousands of visitors and students," says Dr. Peter Raven, Director of the Missouri Botanical Garden. "It provides a means for his accomplishments and values to influence new generations."

PHOTO BY JACK RYAN RUMBERGER

*A sculpture of Carver by artist Tina Allen is placed in the new George Washington Carver Garden, opened October 15.*

PHOTOS BY JACK JENNINGS AND JUSTIN VISNESKY

*Renovation of Henry Shaw's original country home, Tower Grove House, revealed surprises like the trompe-l'oeil paneling painted on a wall (lower right).*

## Tower Grove House Reopens

Tower Grove House reopened on Saturday, October 29. It offers visitors a look at Henry Shaw's Victorian country estate as it was when he lived there and planned what would become a world-renowned botanical garden. Closed in late 2003, the house has undergone renovation and, more importantly, reinterpretation, thanks to the generous gifts of the May Department Stores Company, Mr. and Mrs. Joseph F. Gleason, Mrs. Mary Ann Lee, Mrs. Mary Jane Kirtz, and the Tower Grove House Auxiliary, given to the Garden's *Stewards of the Earth* campaign.

The home in past years "did not give a true sense of Henry Shaw and the era in which he lived," says Marie Schmitz, chair of the Tower Grove House Historical Committee, which worked closely with consultants in developing the reinterpretation plan. "Now the house really goes into depth on him and his time and the development of the Garden," she said.

The renovation process revealed a few surprises that were incorporated into the house redesign. When workmen pulled an enormous bookcase away from an upstairs wall, they found a *trompe l'oeil* mural of paneling, which has been restored. They also discovered two layers of original linoleum, or "oil cloth" as it was called in the past. Samples were enlarged so that the original pattern could be duplicated.

## Dr. Luther Williams Honored

Dr. Luther S. Williams, the William T. Kemper Director of Education and Interpretation, was honored at the Garden's annual Director's Associates Dinner on October 11 for his distinguished career as one of the nation's foremost experts on math and science education.

Williams joined the Garden on August 1, 2001 to lead the Education Division's 39 staff members and hundreds of volunteers at the Garden and its off-site campuses. During his tenure, the Garden launched the innovative Garden Education Compact (GEC), a unique partnership with 11 St. Louis public schools to improve students' science and math scores. Williams oversaw the opening of the Commerce Bank Center for Science Education in 2003 and the completion of the Dana Brown Overnight Education Center at the Shaw Nature Reserve. He has played an important advisory role in developing the educational component of the new George Washington Carver Garden and the new Doris I. Schnuck Children's Garden—A Missouri Adventure, opening next spring.

"We are very grateful for Dr. Luther Williams's many fine accomplishments," says Garden Director Dr. Peter Raven. "He led the way to more interactive, enjoyable activities to engage children and their parents in the discovery of ecology and environmental science."

Williams will retire from his current post at the end of the year.

## Dr. Shannon Smith Retires

After 14 years, Dr. Shannon Smith, the Missouri Botanical Garden's Director of Horticulture, retired in October. Smith plans to move with his wife to a 35-acre ranch on the Guadalupe River near Kerrville, Texas, 75 miles from San Antonio, where he will work on native plant restoration and volunteer on the board of the San Antonio Botanical Garden. Smith's current "right hand," Operations Manager Jim Cocos, will serve as interim Director of Horticulture.

During Smith's tenure, the Garden witnessed unprecedented growth and development. Smith oversaw the installation of the Kemper Center for Home Gardening, the Grigg Nanjing Friendship Garden, the Blanke Boxwood Garden, the English Woodland Garden renovation, and the Kresko Family Victorian Garden. "I don't imagine there's ever been a 10-year period with that much going on," said Smith, "One thing I can say about MBG, there's never a boring moment!" Smith oversaw a division of 63 employees and hundreds of volunteers.

"The dramatic changes of the last 14 years would simply not have happened without the leadership of Dr. Shannon Smith and his carefully developed team," said Garden Director Dr. Peter Raven. "We are very grateful for his contributions."

## Support the Garden through Year-End Giving

In order to maintain the Garden and improve services offered to members, we ask each year for contributions to the Henry Shaw Fund, our most important source for annual operating support. Won't you please consider making a tax-deductible gift as part of your charitable contributions for 2005? Your gift supports the Garden's plant science research here and abroad, extends recreational and educational programs for people of all ages, and nurtures the beauty of the Garden that is enjoyed by more than 700,000 visitors annually. Individuals who contribute $150 or more to the 2005 Henry Shaw Fund will receive an additional benefit—an embroidered MBG logo fleece blanket. For information regarding the Henry Shaw Fund or to charge your gift by phone, please call (314) 577-9500.

### Corporate Partners

Thanks to Our New and Renewing Corporate Partners
(April 10 to October 10, 2005)

**Principal Level**
**($25,000 and up)**
Commerce Bank
Monsanto Company
Schnuck Markets, Inc.

**Shareholder Level**
**($10,000 to $24,999)**
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Thompson Coburn LLP
Willaredt Acres, Inc.

*At right: In Japanese culture, snow in the garden (called* sekka *or* toka*) is considered to be a "flower." The elegant way snow accumulates on bare branches and garden accessories is a viewing pleasure, and in fact, certain elements—such as the* yukimi *or "snow-viewing lantern"—are specifically designed to be appreciated in the snow.*

PHOTO BY LEE SHANNON RHOADES

# GARDEN AT LARGE

SHAW NATURE RESERVE

Hwy. 100 & 44 (exit 253)
Gray Summit, MO 63039
phone: (636) 451-3512
www.shawnature.org

*Founded in 1925, the Shaw Nature Reserve encompasses 2,400 acres of tall-grass prairie, forests and glades, woodlands and wetlands, into 14 miles of hiking trails.*

PHOTO COURTESY SNR

## Get Back to School

What better time to get back to Garden school than during the winter months when the garden chores are at a minimum? Native Plant School is a year-round series of mostly outdoor learning sessions in the Whitmire Wildflower Garden. Covering various aspects of native home landscaping and prairie-savanna-wetland reestablishment, participants are invited to bring questions, comments, photos, drawings, plant specimens, etc. for these three-hour discussion/tour sessions with SNR's native plant manager Scott Woodbury and guest experts.

Fees ($12, $8 for Garden members) are paid at the Shaw Nature Reserve Visitor Center upon arrival. For reservation, please call (636) 451-3512.

### Invasive Plant Control

*Thursday, November 17, 1–4 p.m.*

Outdoor session will focus on controlling the most common woody, perennial, and annual invasive species. Demonstrations include spraying herbicide, stump treatment, and mechanical removal. Meet at the Bascom House.

### Native Home Gardening: Design Concepts

*Thursday, January 12, 2006, 1–4 p.m.*

Indoor session focusing on garden design concepts and methods using native plants to develop a native garden that you and your neighbors will enjoy and accept. Discussion will include weed ordinances and tips for creating an attractive garden in urban and suburban communities. Meet at the Bascom House.

### Native Plant Propagation

*Thursday, February 8, 2006, 1–4 p.m.*

Greenhouse session on propagating native plants from seed. Concepts include cold stratification, scarification, transplanting, and seedling care. Meet at the SNR Visitor Center.

EARTH WAYS CENTER

3617 Grandel Square
St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org

*Visit EarthWays Center on our Public Tour Days (see calendar). Bring your club, church, co-workers, or school for a group tour. Explore our resources online, or call us to learn more about what interests you.*

## EarthWays Center

### Five Years And Growing: Where Green Expertise Is At Your Service

Who do you call when your garden needs help? St. Louis area gardeners know they can dial our Horticulture Answer Service or visit the Plant Doctors at the Kemper Center for Home Gardening if their trees get weak or their blooms look droopy. The Garden provides this expert resource!

A growing number of folks who care about the environment are aware of another resourceful Garden service: the "green" knowledge base of EarthWays Center. A staff of six full-time employees and more than two dozen dedicated docents can help with issues ranging from fixing homes that leak heat to finding options for odd-item recycling. We are constantly learning and teaching about ways to improve efficiency, comfort, economics, and health through everyday choices that use energy, water, and materials in consumer products more sustainably.

Formed in November 2000, this unique Garden division continues to grow. Our work with the U.S. Green Building Council's St. Louis Regional Chapter is helping the business community develop green practices. Through the Home Performance with Energy Star program we're helping homeowners obtain whole building audits and effective home improvements. EarthWays education coordinators are helping area colleges build their own problem solving green teams and supporting K–12 schools in efforts to recycle and utilize solar power. TV, radio, and magazine reporters frequently call on EarthWays Center for news story details about saving energy, in response to increasing public concern about fuel pricing and supplies.

PHOTO BY DALE DUFER

How can we help you grow more green?

PHOTO BY MARK DEERING

Black Widow, *Latrodectus mactans*

## Building a Better Bug Display

Opening in the main exhibit hall in mid-December, the Sophia M. Sachs Butterfly House is pleased to introduce the Pulaski Bank arachnid wall. This U-shaped display literally surrounds the visitor with close encounters of the 8-legged kind. Members of the arachnid family on view will include tarantulas, black widows, brown recluses, occasionally a large garden orb weaver, and two to three species of scorpions and a vinegaroon (or giant whip scorpion). "Arachnids are beneficial predators within the ecosystem. Without them, certain prey insect populations could explode out of control," says Joe Norton, Director of the Butterfly House. "This exhibit will allow guests of all ages to see these fascinating creatures up close."

Butterfly House

15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

*More than a thousand live tropical butterflies are in free flight inside the glass conservatory at the Sophia M. Sachs Butterfly House. Visit native and migrating species in the outdoor gardens of the Butterfly Garden. Watch a butterfly emerge from a chrysalis right before your eyes. Whatever your age, you'll enjoy a trip to the Butterfly House where wonder takes flight!*

PHOTO COURTESY NANCY SAUERHOFF

*Patty Arnold; Janet Lange; Nancy Sauerhoff; Vickie Newton, KMOV Channel 4; Paula Lampen; Evelyn Newman; and Cathy Berges at the Butterfly House* Flutter into Fall Fashions show.

## Flutter into Fall Fashions

Thank you to our sponsors, friends, members, and guests who helped make our fundraiser, *Flutter into Fall Fashions*, a tremendous success! The event was co-chaired by Janet Lange, Paula Lampen, and Nancy Sauerhoff, with Suzanne Deutschmann and Dot Soldavini serving as auction co-chairs. Fashion show hosts, Vickie Newton of KMOV TV and Heather Howard of Chesterfield Talbots, provided lively runway commentary.

*Sponsors: Brentwood Travel Service, Care Source, Inc. (in memory of Elizabeth Danforth), Jean Racowsky, Dr. Marvin and Mimi Rennard, and Rosemary Shaughnessy.*

*Friends: Chesterfield Jewelers, Evelyn Newman, Fleishman-Hillard, Inc., Sachs Properties Inc., Jean Crowder, Armarie Murphy, Tymms Salon, The Delmar Gardens Family, and Grand Rental Station.*

## Butterfly House Tributes

*For information on making a gift to the Butterfly House Tribute Fund, please call (314) 577-0297.*

*in memory of* *in honor of*

**Thelma Crowley**
Jack and Marilyn Fries

**Christ Mangos**
Dr. and Mrs. Jules Snitzer

**Cheri A. Pederson**
Mr. Kevin Eichner
Mr. and Mrs. William J. Gray
Dr. and Mrs. John L. Oldani

## Butterfly House Pavers

*Butterfly House pavers are a great way to recognize graduations, weddings, birthdays, holidays, and memorials. For information, call Fay Orr at (314) 577-0874.*

**Shawna, Steve, Kieran, and Anna**
Maud Kelly and your Friends at COCA

**Al Bertram**
Bert Bertram
Ruth Ann Bertram
Ronald and Barbara Nottmeier
Kathy and Larry Shoults
Mary Beth, Mike, Lauren and Eric Wiig

**Rockie Kirtlink**
Vicki Kirtlink

**Susie Kunst**
Mike and Susie Kunst

**Cheri Ann Pederson**
Keith, Julie and Jake Rhodes

**Linda Wolf**
Children's World Learning Center

*Tributes and Pavers donated to the Butterfly House from July to August 2005.*

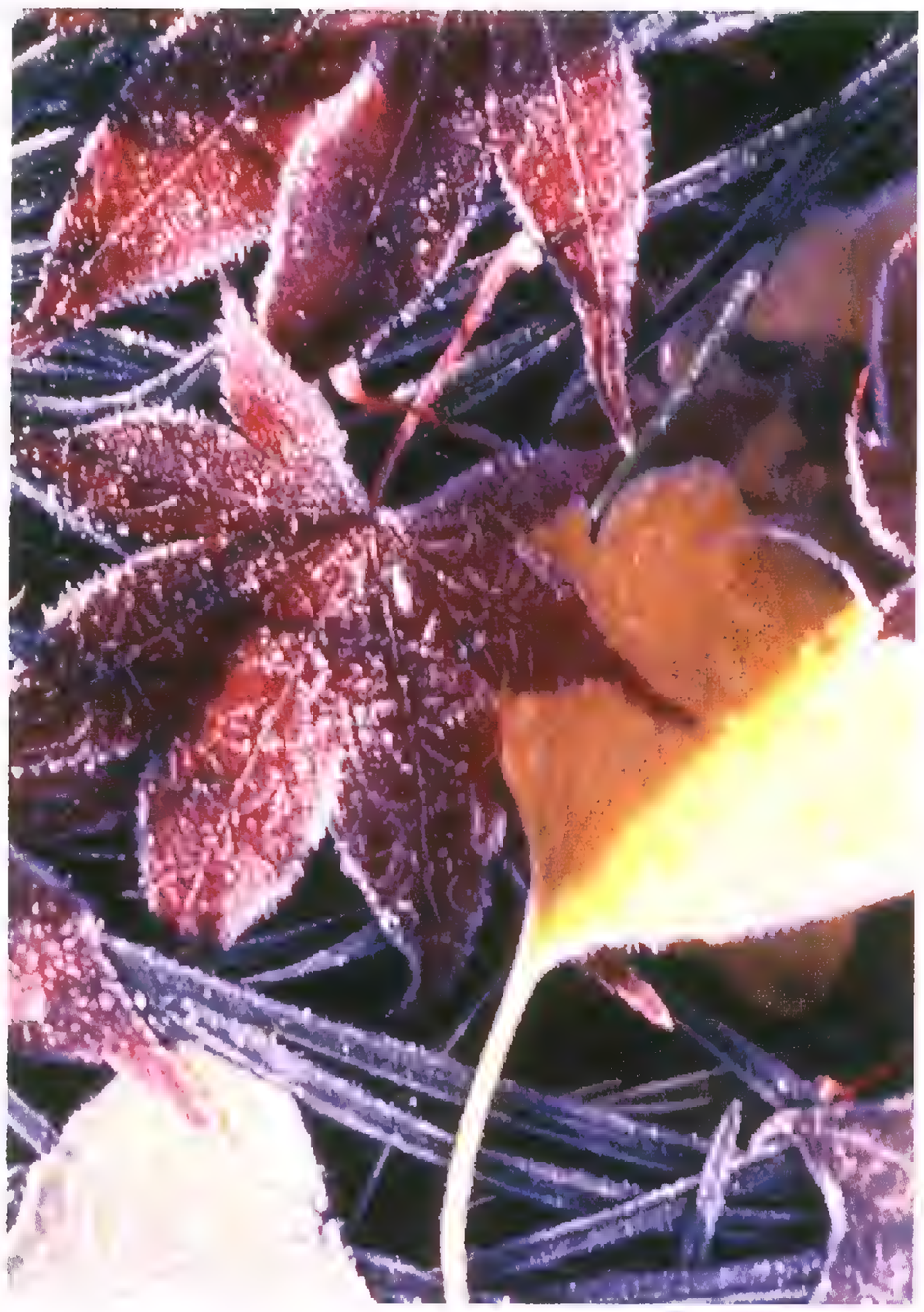


PHOTO BY JAMESLY LANE

## FROM THE WILLIAM T. KEMPER CENTER FOR HOME GARDENING...

# WHAT TO DO IN THE GARDEN THIS MONTH

*For additional information on plant care and gardening:*

- *visit the Kemper Center for Home Gardening*
- *call the Horticultural Answer Service, Monday through Saturday, 9 a.m. to noon, at (314) 577-5143*
- *check out the Gardening Help section at www.mobot.org*

# November

## All month

- Prevent insects or diseases from overwintering by removing and composting all plant debris. Till under any unused, finished compost to improve soil and expose insect pests to winter cold.
- Continue watering evergreens until the ground freezes. Soils must not be dry when winter arrives.
- Now is the ideal time to plant trees and shrubs. Before digging the hole, prepare the site by loosening the soil well beyond the drip line of each plant. Plant trees and shrubs no deeper than the depth they grew in the nursery. Remove all wires, ropes, and non-biodegradable materials from roots before back filling. Apply a 2–3 inch mulch layer, but stay several inches away from the trunk. Keep the soil moist, not wet, to the depth of the roots.
- Remove the spent flowers and foliage of perennials after they are damaged by frost.
- Collect soil samples to test for pH and nutritional levels.
- To prevent injury to turf grasses, keep leaves raked up off of the lawn. Continue mowing lawn grasses as long as they keep growing. A final fall application of fertilizer can be applied to bluegrass and fescue lawns now.

## Week 1

- Plant tulips now.

## Week 2

- Newly planted broadleaf evergreens such as azaleas, boxwood, and hollies benefit from a burlap screen for winter wind protection. Set screen stakes in place before the ground freezes.
- Be sure to shut off and drain any outdoor water pipes, hoses, or irrigation systems that may freeze during cold weather.
- Clean house gutters of leaves and fallen debris before cold wet weather sets in. Rake up and collect fallen leaves. These can be plowed under directly to enrich garden soils or allowed to slowly decay in large piles.
- Set up bird feeders. Birds appreciate a source of unfrozen drinking water during the winter.

## Week 3

- Root crops such as carrots, radishes, turnips, and Jerusalem artichokes store well outdoors in the ground. Just before the ground freezes, bury these crops under a deep layer of leaves or straw. Harvest as needed during winter by pulling back this protective mulch.
- Mulch strawberries for winter with straw. This should be done after several nights near 20 degrees, but before temperatures drop into the teens. Apply straw loosely, but thick enough to hide plants from view.
- Winter house plants basics: reduce or eliminate fertilizer until spring. Shorter days mean slower growth. Slower growth means less frequent watering. Plants in plastic pots need less water than those in clay pots. Plants in cooler rooms need less water and grow slower than those in warm rooms.

## Week 4

- Cover garden pools with bird netting to prevent leaves from fouling the water. Oxygen depletion from rotting organic matter can kill pond fish. Take steps to prevent garden pools from freezing solid in winter. Covering pools with an insulating material, or floating a stock tank water heater in the pond, will lessen the chance of ice damage.
- Roses should be winterized after a heavy frost. Place a 6–10 inch deep layer of mulch over each plant. Topsoil works best. Prune sparingly, just enough to shorten overly long canes. Climbers should not be pruned at this time.
- Mulch flower and bulb beds after the ground freezes, to prevent injury to plants from frost heaving.

## December

### All month

- On cold nights, move houseplants back from icy windows to prevent chilling injury. Overwintering geraniums like bright light and cool temperatures. Keep soils on the dry side. Be sure newly purchased indoor plants are well protected for the trip home. Exposure to icy temperatures for even a few moments may cause injury. Water houseplants with tepid water. Cold tap water may shock plants.
- Be sure the root zones of azaleas and rhododendrons are thoroughly mulched. Any organic material will do, but mulches made from oak leaves, shredded oak bark, or pine needles are preferred.

### Week 1

- Clean and oil all garden hand tools before storing for winter. All power equipment should be winterized before storage. Change the oil and lubricate moving parts. Either drain fuel systems or mix a gas stabilizing additive into the tank.
- Apply mulches to bulbs, perennials, and other small plants once the ground freezes.
- If you feed rabbits corn or alfalfa, they may leave fruit tree bark unharmed.

### Week 2

- Holiday poinsettia basics: sun for at least half the day, keep away from drafts, registers, and radiators. Night temperatures in 50s or low 60s; days at 70 degrees. The soil should dry only slightly between thorough waterings. Discard the drainage. Be sure to punch holes in decorative foil wraps to prevent soggy soil conditions.
- Hollies may be trimmed now and the prunings used in holiday decorations. Only female holly trees bear the colorful berries. There must be a male tree growing nearby for pollination, if fruits are desired.
- Christmas trees hold needles longer if you make a clean, fresh cut at the base and always keep the trunk standing in water.

## FEATURED PLANT OF MERIT

PHOTO BY TAMMY PALMIER

### Colorado Spruce

*Picea pungens* 'Fat Albert'

This Colorado spruce cultivar is noted for its dense, broad, upright pyramidal shape (a perfect cone). It has closely-spaced, ascending branches and a steel-blue needle color. Grows slowly (12 inches per year) to 10–15 feet tall. Oblong cones (2–4 inches long) are greenish when young, maturing to light brown. Easily grown in average, medium-wet, well-drained soil in full sun, this cultivar is named after comedian Bill Cosby's fictional character.

*Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org*

## PLANTS IN BLOOM

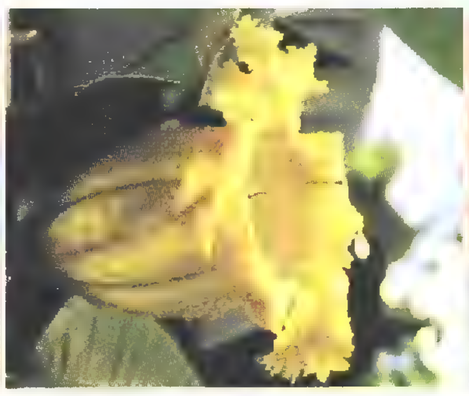
for a complete list of plants in bloom go to www.mobot.org

### November

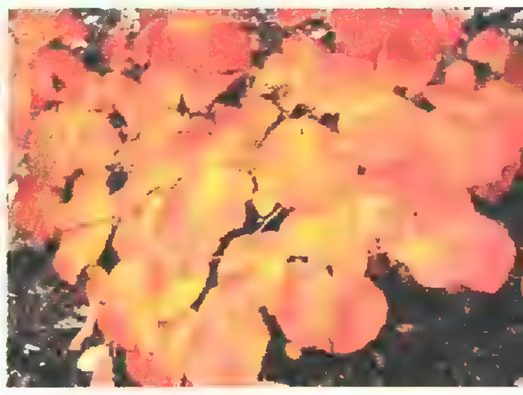
*Fall color all over the Garden grounds*

*Ornamental cabbage in the Swift Family Garden*

*Wahoo in the Kemper Center Shade Garden*



*Chalice Vine in the Climatron*



*Witch Hazel in the Lopata Azalea-Rhododendron Garden*

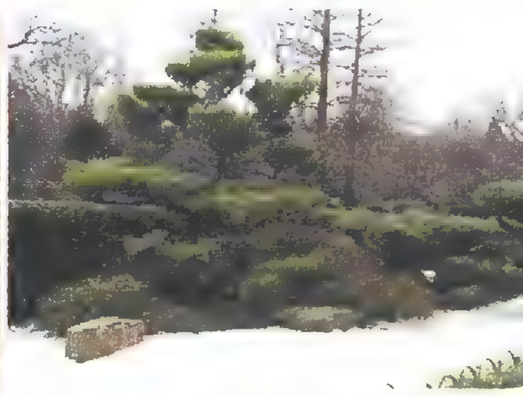
### December

*Poinsettia in the Holiday Flower and Train Show*

*Powder Puff in the Climatron*

*South African Honeysuckle in the Shoenberg Temperate House*

*Tartarian Dogwood in the Kemper Center Ground Cover Border*



*Japanese Black Pines in the Japanese Garden*

PHOTOS COURTESY MBG EDUCATION

# GARDENING IS GOOD FOR YOU

When we think of the benefits of gardening, most often we think of the stress-relieving connection with nature, of the joy of mild physical exertion, or if growing fruits and vegetables, of the healthfulness of fresh produce. But psychiatric experts acknowledge a whole array of benefits—physical, intellectual, and emotional—of working with plants.

Horticultural therapy, while steadily growing in popularity, is not a new fad. Physicians have understood the therapeutic benefits of beautiful natural environments since the beginnings of medicine. In the U.S., the "Father of American Psychiatry" Dr. Benjamin Rush published a textbook purporting the restorative effects of garden settings. Today, many hospitals, care facilities, and senior centers incorporate gardens.

The American Horticultural Therapy Association champions "barrier-free, therapeutic gardens that enable everyone to work, learn, and relax in the garden." In *Growing with Gardens*, author Bibby Moore proposes far-reaching benefits of horticulture programs including:

> ***Physical:*** exercises whole body and especially eye-hand coordination; motivates us to walk, stoop, bend, reach, and keep our balance; provides mild to moderate exercise in coordination, strength, stamina, and endurance.
>
> ***Intellectual:*** teaches new skills, stimulates our understanding of abstract concepts such as time, growth, death, and change; exercises our minds in terms of memory, logic, attention span, and awareness of our surroundings.
>
> ***Emotional/Psychological:*** satisfies some of our need to be nurturing; provides opportunities for creativity and imagination; develops a sense of responsibility; develops patience and provides opportunities to anticipate future events.

Horticultural therapists create garden spaces that accommodate people with a wide range of abilities, some of which can be seen in the Kemper Center for Home Gardening in the Joseph F. Ruwitch Garden for All. Techniques include: constructing wide, gently graded wheelchair accessible entrances and paths, utilizing raised beds and containers, and adapting tools to turn a disability into an ability. Horticulture therapy also calls for creating sensory-stimulation environments with plants selected for fragrance, texture, color, even taste as seen in the Zimmerman Scented Garden near the Linnean House, in the Kemper Center Fragrance Garden, and in the St. Louis Herb Society Herb Garden.

## Give the Gift of Fun to a Senior

Purchase a class, or a whole series of classes, for the senior in your life. It's fun and therapeutic. Programs are available at the Garden, as well as brought into the community via outreach efforts. There are even intergenerational programs for seniors and their younger friends or grandchildren. To request a catalog of senior programs, or for more information, call (314) 577-9506.

**Jolly Gesneriads:**
Learn about culture and care of members of the African violet family.
Wed., Dec. 14, 10 to noon
$7

**Holiday Gift Making:**
Create a festive pomander, a votive holder, and a charming Amaryllis basket.
Fri., Dec. 16, 1 to 3 p.m.
$11

**Holiday Wreath Making:**
Use fresh greens, ribbon, and pinecones to create a holiday treasure.
Wed., Dec. 21, 10 a.m. to noon or 1 to 3 p.m.
$11

## Garden Guide to a Happy Tree

Approximately 33 million cut trees are sold in North America every year during the holiday season. Tree farms supply these trees, and according to the National Christmas Tree Association, for every tree harvested, two seedlings are planted in its place the following spring. If you celebrate the season with a real tree, here are some tips to lengthen the enjoyment:

- Shake or bounce the tree on its stump to test for freshness. You should not see an excessive amount of green needles fall to the ground.
- Make a fresh, straight cut across the base of the trunk (about a quarter inch up from the original cut) and place the tree in a tree stand that holds a gallon of water or more.
- Keep the tree stand filled with water. A seal of dried sap will form over the cut stump in four to six hours if the water drops below the base of the tree, preventing the tree from absorbing water later when the tree stand is refilled. If a seal does form, another fresh cut will need to be made.
- A tree will absorb as much as a gallon of water or more in the first 24 hours and one or more quarts a day thereafter. Water is important because it prevents the needles from drying and dropping off and the boughs from drooping. Water also keeps the tree fragrant.
- Recycle your tree. Christmas trees make great mulch, so bring your holiday tree to one of the St. Louis City/County locations. Details to come in the next issue of the Bulletin, or call St. Louis Jefferson Solid Waste Management at (314) 645-6753 for more information.

PHOTO BY JUSTIN VISNESKY

### Gnome Camouflage

Perhaps our gnome is getting ready to settle down since he didn't stray far from his last location in the Naumann Experimental Garden among the tomatoes. Crossing the path, he camouflaged himself among the multicolored peppers. But now that he's been spotted, he will surely move again. Try to find him once more this fall in the Kemper Center for Home Gardening display beds before he hibernates for winter.

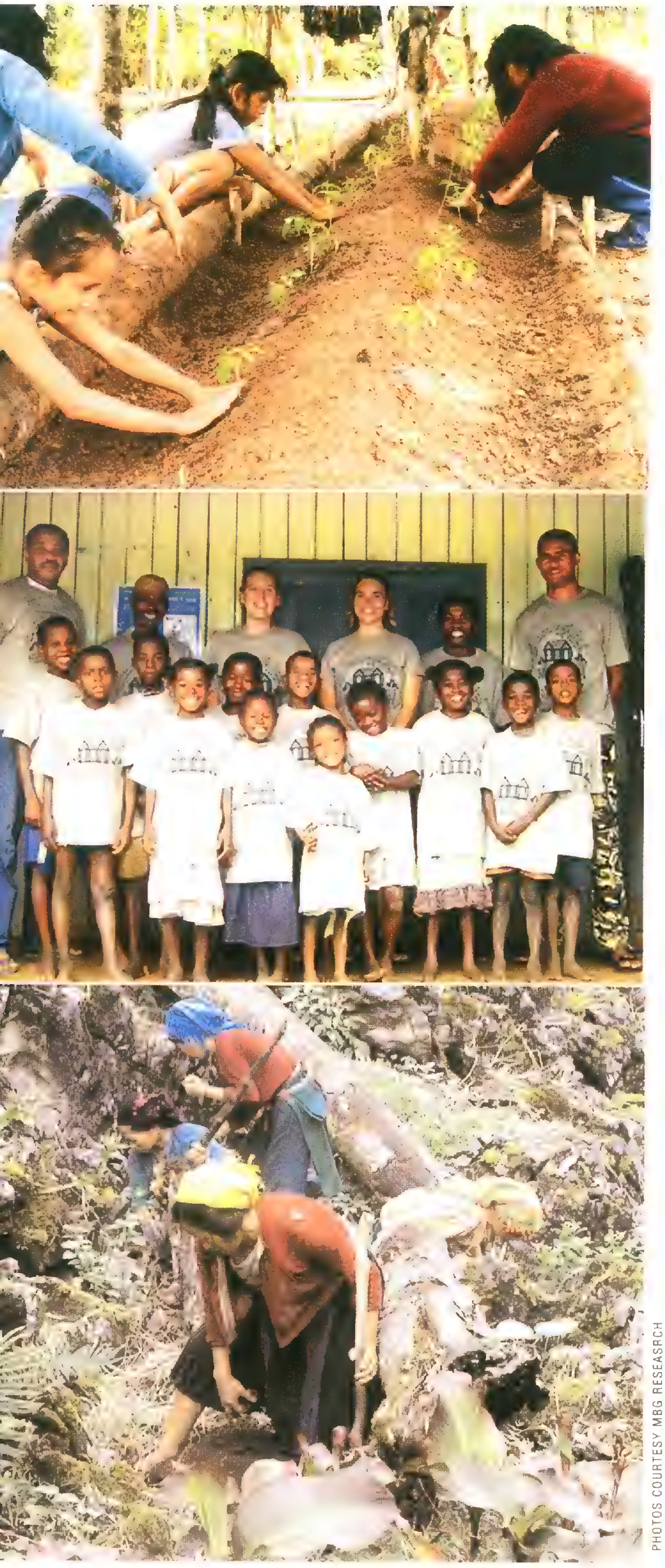
## Garden Guide to Happy Poinsettias

About $220 million worth of poinsettias are sold during the holiday season, making them the best selling potted plant in the United States. Most people pitch the plants after a few weeks, but in their native Mexico, poinsettias are perennial flowering shrubs, growing up to 10 feet tall. If you'd like to keep that poinsettia around longer, here are some tips:

PHOTO BY JACK JENNINGS

- Select a healthy, fresh plant. A fresh poinsettia is one on which little or no yellow pollen is showing on the flower clusters in the center of the bracts.
- Protect from cold. Poinsettias cannot stand cold; even a few minutes of exposure to low temperatures can cause a new plant to dump its bracts within a few days.
- Keep the poinsettia away from cold windows and drafts of any kind. The ideal poinsettia situation is warm and sunny by day, dark and cooler at night. Water when dry, and fertilizesparingly.
- For a challenge: attempt re-blooming. Poinsettias are "photoperiodic" bloomers, requiring total darkness for 12 hours a day before they initiate flowers. Even small amounts of artificial light, a street lamp for example, can be enough to interfere with flowering. Some gardeners cover the plants with black cloth at night, or place them in an undisturbed closet.

*For more tips and helpful information on other seasonal home gardening topics, such as care and maintenance of houseplants during winter months, stop by the Kemper Center for Home Gardening for helpful handouts or to speak with a plant doctor.*



PHOTOS COURTESY MBG RESEARCH

# RESEARCH & CONSERVATION

## Building Capacity and Community

For years, the Missouri Botanical Garden has conducted training programs in botany and conservation designed to strengthen the ability of local people to manage natural resources for their own benefit and, at the same time, to enhance opportunities for employment and community development. In scientific circles, this is called building "capacity" since a region's capacity for sustainable development and research efforts depends upon the skills of its people.

These programs take place within the context of the Garden's ongoing botanical research, linking exploration to training. The goal is to increase the ability of scientists, conservationists, and rural people in tropical countries to conserve and wisely manage their natural resources. The Garden's Center for Conservation and Sustainable Development (CCSD) works with the Research Division to expand these programs.

In the areas of exceptional plant richness and diversity where Garden botanists conduct research, CCSD also conducts comprehensive programs to help local people conserve their natural resources through programs of community-based conservation. These programs help communities develop alternatives to overexploitation of resources and practices such as slash-and-burn agriculture, and to acquire the tools to manage sustainably the diverse but highly threatened plant life of their region. Programs are underway in Latin America in Ecuador, Peru, and Bolivia, and around the globe in Madagascar and Vietnam.

*Top: The Garden's CCSD help instruct Yanesha school children in central Peru about plants. They now maintain a school garden with nutrient-rich fruits and vegetables.*

*Middle: The Mahabo Conservation Project tee shirts were given to the children for their participation in a conservation class. Garden researchers Armand Randrianasolo and Fortunat Rakotoarivony stand at back.*

*Left: Local H'mong villagers participate in replanting of the critically endangered Vietnamese golden cypress (*Xanthocyparis vietnamensis*) on degraded limestone areas in Bat Dai Son Nature Reserve in Ha Giang Province in northern Vietnam. The conservation program in Vietnam has established a village-level propagation facility near the native forests of the Vietnamese golden cypress with good success in getting cuttings to root and become plants. The program has trained local people in carrying out and monitoring the process.*

PHOTO BY JACK JENNINGS

July–August 2005

# TRIBUTES

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-5118. You can also make a tribute gift online at our website, www.mobot.org.

## in honor of

**Mr. and Mrs. Randy Arst**
Sue, Phil and Marie Schreiber

**Dorothy Beezley**
Mrs. Frances J. Beezley

**Dr. and Mrs. Joe E. Belew**
Barbara and Dan Bindler
Miss Kim Redhage
Dr. and Mrs. E. Robert Schultz

**Nanci Bobrow**
Judy and Gil Grand

**Mrs. Patricia Bushman**
Ms. Jackie Juras

**Reverend Sara Chaney**
Reva Freund
Jack Kourik

**Ruth and Thomas Cobb**
Janet, Karen, Colleen and Nancy Wagoner

**Mr. and Mrs. Charles J. Cook**
Mrs. Blanton Whitmire

**Mrs. William B. Crowder**
Jean and Val Grewe

**Annette Fudemberg**
Judy and Gil Grand

**Mr. and Reuben Goodman**
Mr. and Mrs. Bernard A. Barken

**Mr. and Mr. Tilford Hearsh**
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**Dr. and Mrs. Jabez F. Jackson, Jr.**
Mr. and Mrs. Charles E. Elrod, Jr.

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**Mr. and Mrs. George T. Lanz**
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Mr. and Mrs. John F. McDonnell

**Mr. Ken Miesner**
Mrs. Mary M. Lee

**Mr. and Mrs. William P. Morgan III**
Mrs. Doris M. Thomas

**Mrs. Shirley Murphy**
Mrs. Jerome T. Holden

**Mr. and Mrs. Harry A. Niewoehner, Jr.**
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**Mrs. Barbara Norman**
Mr. and Mrs. Arthur A. Dorffi

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Ms. Ann Biraben
Margie and Bert Talcoff

**Mr. and Mrs. Norm Schuette**
Ms. Jayne Ganschinietz

**Ms. Anabel C. Selby**
Mrs. Kaye Mayer

**Payton Grace Shostak**
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**Mrs. Tracey Singer**
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**Mr. and Mrs. Brice R. Smith, Jr.**
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PHOTO BY JUSTIN VISNESKY

# HOLIDAY SPARKLE

*These delicate blossoms are hand carved from balsa wood by Balinese artisans. Each tropical flower or stem is painted by hand so no two are exactly alike. The Gate Shop has a wide array of these exotic beauties so you can bring the color and drama of the tropics to your holiday tree or table.*

## GARDEN GATE SHOP

4344 Shaw Blvd. • (314) 577-5137
Open daily 9 a.m. to 5 p.m.
All proceeds benefit the Garden.

### Holiday Hours

Open every day except Thanksgiving, Christmas, and New Year's Day. The shop will be open until 8 p.m. December 26–30. The shop will be closed January 1–26 for inventory and new lighting.

## SPECIAL EVENTS

### Holiday Sales

**Nov. 2–6 and Dec 7–11**
Take 20% off your holiday shopping

### Other Sales

**Nov. 19–20** Members receive an additional 10% off food

### Trunk Shows *10 a.m. to 5 p.m.*

**Nov. 5–6** Hands of the Maya crafts/books
Del Sol jewelry

**Nov. 12–13** Bee Clare jewelry
Molly Isom jewelry

**Nov. 19–20** Nancy Helmer jewelry

**Nov. 25–27** Silver Cat jewelry

**Dec. 3–4** Yael Shomroni pottery
Peggy Jacobsmeyer glass

**Dec. 10–11** Down to Earth gourmet gifts

**Dec. 16–18** Silver Cat jewelry

**Dec. 30–31** Lacey jewelry

### Book Signings

**Nov. 5** Lecture and booksigning by Carol Grove on *Henry Shaw's Victorian Landscape*. Noon to 2 p.m.

**Nov. 19** Edna Campos Gravenhorst will sign her new book *Benton Park West*. 11 a.m. to 1 p.m.

**Nov. 26** Jack Jennings will sign his bestseller *Seasons*. We will also feature the new *Seasons* screen saver. Noon to 2 p.m.

**Dec. 3 & 17** Sarah Krech will read *The Little Engine That Could*. 11 a.m. to noon

**Dec. 10** Joe Pollack and Ann Lemons will sign their new book *Great St. Louis Eats*. Noon to 2 p.m.

### Food Tasting

*every Saturday, 12:30 to 3:30 p.m.*

### New at the Shop

We are pleased to be able to offer delivery service in the greater St. Louis metropolitan area on our beautiful selection of orchids, bonsai, cacti, and seasonal plants.

**Mr. Milan Kozak**
Ms. Victoria Kozak Robinson

**Robert S. Krankeola**
Ms. Nancy Martin

**Mrs. Shirley Lawrence**
Mr. and Mrs. Clarence C. Barksdale
Mr. and Mrs. Walter G. Stern

**Ms. Sally F. Laws**
Mrs. Denise Gittemeier

**Father of Neal Lazaroff**
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**Robert L. Lonsbury**
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**Carola Loranger**
Cliff Doucet and Lisa Otke

**Mrs. Helen McNally**
Ms. Ann Liedl

**Ray W. Meckfessel**
Belle Coeur Garden Club

**Molly Merriman**
Mr. and Mrs. Thomas S. Lambert

**Joseph Mestres**
Gene Becker
Jack Becker
Scott Christeson
Angela Mestres
Dave Mestres
Diana Mestres
Graciela Mestres
Hugh Mestres
Joey Mestres
Marlene M. Mestres
Marge Mestres
Steve Mestres
Tim Mestres
Richard Schumacher
Suzi Schumacher
Deb Voegeli

**Wilbert E. Moll**
Judge and Mrs. Alphonso H. Voorhees

**Mrs. Helen Monally**
Terry and Molly Heinz

**Dorthy Moxley-Seiffertt**
Mrs. Doris K. Grattendick

**Helen Naeger**
Mr. Douglas R. Hunt and
Ms. Susan A. Carrow

**Elizabeth Kimiko Nance**
Yoko Nance

**Lilly Needleman**
Mrs. Jewel K. Cummins-Harris
Ms. Jean Godi
Mr. John W. Kourik
Mr. and Mrs. I. E. Millstone
Networking To Grow

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Kitty Sanders and Family

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Lois and Bob Freedman

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Joan and Jim Emmert
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Sophia Gougenour
Mrs. Marian Hicks
Mr. Matthew Loehrer
Ms. Carol McCarthy
Moro Township
Jill and John Newsom
James and Carol Noble

## Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Patricia Arnold, Director of Development, at (314) 577-5120 for further information and a complimentary brochure. Visit our website at www.mobot.org. Click on Membership, then Planned Giving Guide.

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# MEMBERS' ENTRY COURT

*Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from July 15th through September 15th.*

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact Fay Orr at (314) 577-0874 or visit our website, www.mobot.org.

### bronze signature bricks

**Susan K. Birmingham**
Susan K. Birmingham

**Michael and Linda Cerutti**
Linda and Mike Cerutti

**Susan A. Defer**
**Donald J. Jacob**
Ms. Julie DeFer
Mr. Mark Jacob

**Carol Gruen**
Ms. Carol Gruen

**Ruth and Herb Halpern**
Mr. and Mrs. Herb Halpern

**Brian J. Keller**
Mr. Brian J. Keller

**Muffy and Chip Matthews**
Muffy and Chip Matthews

**Dr. and Mrs. C. Douglas Meadows**
Dr. and Mrs. C. Douglas Meadows

**Magy, Dolly, JJ,**
**Jess, and Boo**
Dr. Judi McLean Parks
Miss Heather Parks

**Anne Richard**

**John Sarah**
Mr. Richard McAfee and Ms. Anne Lind

**Tim and Lynne Schroeder**
Tim and Lynne Schroeder

**Carol J. Sonderman**
Carol J. Sonderman

**Alistair and Karen Stahlhut**
Alistair and Karen Stahlhut

**Prapapun Wilson**
Mr. B. Hadley Wilson

### engraved clay bricks

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Mr. William Thoele

**Dan and Beth Albes**
Mr. and Mrs. Dan Albes

**Jack Bortle**
Mrs. Noel Joy Bortle

**Wayne and Judy Botz**
Mr. and Mrs. Wayne Botz

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**Rena E. Hale**
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**Elisa Israel**
**Sam Israel**
Margaret and Martin Israel

**Michael Samuel Kodner**
Marsha and Larry Rothman

**Norbert R. Mueller**
Mrs. Norbert R. Mueller

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Dr. and Mr. Roethemeyer

**Milton and Stelle Schwartz**
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**Polly Shelton**
Ms. Joan Pezzani

**Marion and Andrew Stevens**
Ms. Katherine G. Smith

**Thomas Strohmeyer**
Mr. Thomas Strohmeyer

**Peter and Hazel Urban**
Mr. Thomas Kadlec

**Dr. and Mrs. Philip Weyman**
Dr. and Mrs. Philip Weyman

**Martha M. Wikgren**
Mr. and Mrs. Walter Bartels
Mr. and Mrs. Duane Camp
Ms. Viola Gilmore
Mr. and Mrs. C. Helms
Mr. Stuart Hauser
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Mr. and Mrs. Robert Lundstrom
Mr. and Mrs. Forest Storm
Mr. and Mrs. Tracy Thomas
Mr. Burt Wikgren

**Karl and Shirley Wolf**
Ms. Sally Wachtman

# education and the garden

winter 2005

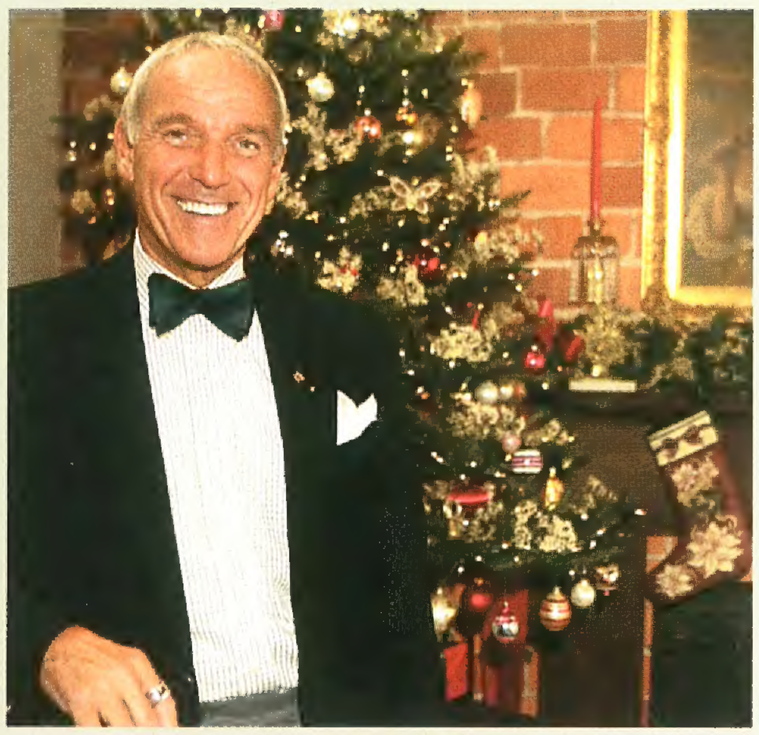


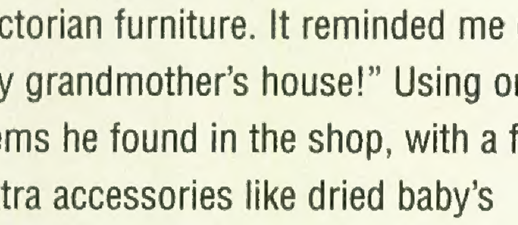
PHOTO BY RYAN RUMBERGER

## America's Flower Man Decks the Little Shop

When challenged by his friend Evelyn Newman to decorate the Little Shop Around the Corner for the holidays, Dale Rohman, America's Flower Man, star of HGTV and the Discovery Channel, graciously accepted. "I used to have a retail shop and loved that part of the business," says Rohman. "Then, when I walked around the shop, I was fascinated by all the Victorian furniture. It reminded me of my grandmother's house!" Using only items he found in the shop, with a few extra accessories like dried baby's breath and ribbon, Rohman created a vintage tableau that's already delighting early-bird holiday shoppers.


LITTLE SHOP AROUND THE CORNER

ANTIQUES • HOME & GARDEN FURNISHINGS



4474 Castleman, St. Louis, MO 63110
(corner of Shaw and Vandeventer) • (314) 577-0891
Hours: Tues. through Sat., 10 a.m. to 4 p.m.


## Instill a Wonder of Nature

Give the gift of the Garden to the child in your life. An Early Childhood Garden class is a wonderful way to introduce a child to the wonders of the Garden. Little Sprouts for ages 2–3 and Garden Buds for ages 4–5 are parent-child classes in which parents or grandparents share the beauty of the Garden with a child. Strollerobics gives parents a workout while children enjoy the scenery. Look online at www.mobot.org/education or contact the Education Department at (314) 577-9506 for more information about classes starting in March.

## BUZZ on in

BUZZ is a series of 90-minute classes at the Butterfly House for children ages 8–12 and their parents. Upcoming classes include "Insect ID" on Saturday, November 12 and "Brrr, It's Cold In Here–Frozen Critters" on Saturday, December 10. Cost is $13 per class ($9 for members). Enroll in three classes for the price of two. Advance registration is required, so please call (636) 530-0076 ext. 10.

## Buggin' Out

A nature-themed program for pre-schoolers packed with science, imaginative play, music, arts and crafts, storytelling, math, and more, BUGaloo takes as its fall theme "Mother Goose and Mother Nature." Nursery rhymes and other children's poems are the basis for play and wonder for kids with a parent or guardian. $13 per class ($9 for members). Pre-registration is required; call (636) 530-0076, ext. 13.

Fridays, December 2 & 9: 10 a.m. for ages 2–3; 12:30 p.m. for ages 4–5
Sunday, December 11 at 1 p.m. for ages 2–3; 2:30 p.m. for ages 4–5

## Give the Gift of the Garden

A membership to the Garden is a wonderful gift and a convenient way to quickly complete your holiday shopping. This holiday season, take 20% off regular and senior level gift memberships during the holiday sales in the Garden Gate Shop. On November 2–6 and December 7–11 you can purchase a regular membership for $48 or a senior membership for $55. Discounts apply to on-site sales only.

In addition to all the wonderful benefits of Garden membership that can be enjoyed throughout the year, the lucky recipient of this gift will have the choice of a Garden fleece scarf or a cooler bag as our special way of welcoming them to the Garden. Purchase three or more gift memberships during the months of November and December, and you will also receive a special gift from the Garden—an embroidered MBG logo fleece blanket—a $20 value that is our special thank you for your help in sharing the beauty of the Garden this holiday season.*

To purchase a gift membership, visit the Membership Services Desk in Ridgway Center, call the Membership Office at (314) 577-5118, or purchase online at www.mobot.org.

** Offer expires 12/31/05.*

# EVENTS CALENDAR OF

PHOTO BY JACK JENNIGS

Missouri Botanical Garden Library
3 1753 00329 6461

**Great Gifts on sale now in the Garden Gate Shop**

- MBG wall calendar, $12.95
- MBG holiday card (boxes of 8), $9.95

## November

**Now through Sat., Dec. 31**
Missouri Botanical Garden 2006 calendar display. Calendars available for purchase in the Garden Gate Shop. Proceeds support the Garden.

****Wed., Nov. 2 to Sun., Nov. 6**
Members receive 20% off in the Gate Shop.

****Fri., Nov. 4**
Members' Day: Holiday decorating. 11 a.m. RC. See page 6 for more details.

**Sat., Nov. 5**
Author Carol Grove discusses *Henry Shaw's Victorian Landscapes*. See page 8 for more details.

**Sun., Nov. 6**
Classic 99's "From the Garden, Live"® concert series: George Silfes, former principal clarinetist of the Saint Louis Symphony Orchestra. Noon. Free, but tickets required. Call (314) 725-0099.

**Sat., Nov. 12**
"BUZZ: Insect ID." BH. See page 22.

**Sun., Nov. 13**
Classic 99's "From the Garden, Live"® concert series: chamber music by soloists of the Saint Louis Symphony Orchestra. Noon. Free, but tickets required. Call (314) 725-0099.

**Fri., Nov. 18 to Sun., Jan. 1, 2006**
Holiday wreath exhibit. See page 6.

**Sat. & Sun., Nov. 19 & 20**
Public tours at the EarthWays Center begin at 11 a.m., noon, 1, and 2 p.m. $2 (free for Garden members and children 12 and under). EC.

**Sat., Nov. 19**
Author Edna Campos Gravenhorst signs her new book, *Benton Park West*, from 11 a.m. to 1 p.m. GGS.

**Sun., Nov. 20**
Classic 99's "From the Garden, Live"® concert series: St. Louis Children's Choir. Noon. Free, but tickets required. Call (314) 725-0099.

**Wed., Nov. 23 to Sun., Jan. 1, 2006**
"Gardenland Express: Vintage St. Louis" holiday flower and train show. See page 7.

**Sat., Nov. 26**
Photographer Jack Jennings signs his bestseller, *Seasons*, from noon to 2 p.m. GGS.

****Wed., Nov. 30**
Members' Event: Gardenland Express preview party. 5 to 8 p.m. See page 6.

## December

**Now through Sun., Jan. 1, 2006**
Gardenland Express and the wreath display

**Dec. 2, 9, & 11**
Camp BUGaloo: "Mother Goose and Mother Nature." BH. See page 22.

****Sat., Dec. 3**
Members' Event: Breakfast with Santa. 8 to 10:30 a.m. RC. See page 6.

**Sat., Dec. 3 & 17**
Sarah Krech reads *The Little Engine That Could* from 11 a.m. to noon. GGS.

****Tues., Dec. 6 and Wed., Dec. 14**
Holiday Luncheons. Noon. SP. See page 6. All proceeds benefit Tower Grove House.

****Wed., Dec. 7**
Members' Event: Holiday Lights Bus Tour, 3:30 p.m. See page 6.

****Wed., Dec. 7 to Sun., Dec. 11**
Members receive 20% off in the Gate Shop.

****Sat., Dec. 10**
Members' Day: Holiday Concert. 1 p.m. RC. See page 6.

**Sat., Dec. 10**
"BUZZ: Brrr, It's Cold In Here – Frozen Critters." BH. See page 22.

**Sat. & Sun., Dec. 10 & 11**
"Carols in the Garden." See page 7.

**Sun., Dec. 11**
Classic 99's "Fro
series: the Bach Society of Saint Louis performs its annual Christmas concert. Noon. Free, but tickets required. Call (314) 725-0099.

**Thurs., Dec. 15**
Springboard to Learning school program. Details TBA.

**Sat. & Sun., Dec. 17 & 18**
Public tours at the EarthWays Center begin at 11 a.m., noon, 1, and 2 p.m. $2 (free for Garden members and children 12 and under). EC.

**Sun., Dec. 18**
Chanukah: Festival of Lights. Noon to 4 p.m. RC. See page 7.

**Sun., Dec. 25**
The Missouri Botanical Garden is closed on Christmas Day.

**Mon.-Fri., Dec. 26–30**
Evening hours open 5 to 8 p.m. for the "Gardenland Express: Vintage St. Louis" holiday flower and train show.

**Wed., Dec. 28**
Kwanzaa: Festival of the First Fruits. Noon to 4 p.m. RC. See page 7.

sassafras
*introduces the fall menu*

Sassafras has introduced the new fall/winter menu! In keeping with the change of season, the new menu features hearty soups-such as Beef Vegetable Barley and Spicy Roast Pepper and Tomato—as well as new grilled offerings and daily specials like chicken pot pie, veggie lasagna, and more. The rare book illustrations decorating the café walls have also been swapped out to reflect fall and holiday themes. Prints make excellent holiday gifts and are available for purchase in the Garden Gate Shop.

## the key

| | | | |
|---|---|---|---|
| CA = Cohen Amphitheater | GGS = Garden Gate Shop | MC = Monsanto Center | SP = Spink Pavilion |
| CL = Climatron | JG = Japanese Garden | RC = Ridgway Center | ** denotes a members-only event. |
| EC = EarthWays Center | KC = Kemper Center | SNR = Shaw Nature Reserve | $ denotes an additional fee. |

*All events are free with admission or membership unless otherwise noted.*

# GARDENLAND EXPRESS

*Vintage St. Louis*

HOLIDAY FLOWER AND TRAIN SHOW

November 23 to January 1, 2006

MISSOURI BOTANICAL GARDEN

**Gardenland Express: Holiday Flower and Train Show**
See page 9 for details.

100% new-tree-free!

100% post-consumer recycled paper

paper manufactured with 100% wind power

## important numbers

| | |
|---|---|
| Communications | (314) 577-0254 |
| Corporate Partners | (314) 577-9513 |
| Education—children | (314) 577-5140 |
| —adults | (314) 577-9441 |
| —seniors | (314) 577-9506 |
| Development | (314) 577-5120 |
| Events hotline | (314) 577-9400 |
| —toll-free | 1-800 642-8842 |
| Facility Rental | (314) 577-0200 |
| Garden Gate Shop | (314) 577-5137 |
| Horticulture Answer Service | (314) 577-5143 |
| Membership | (314) 577-5118 |
| Planned Gifts | (314) 577-5120 |
| Sassafras | (314) 577-5196 |
| Tourism | (314) 577-0275 |
| TDD (hearing impaired) | (314) 577-9430 |
| Tribute Gifts | (314) 577-5118 |
| Volunteer Services | (314) 577-5187 |
| Visitor Services | (314) 577-5101 |

## contact information

Missouri Botanical Garden (314) 577-5100
4344 Shaw Boulevard, St. Louis, MO, 63110

Sophia M. Sachs Butterfly House (636) 530-0076
15193 Olive Blvd., Faust Park, Chesterfield, MO 63017

EarthWays Center (314) 577-0220
3617 Grandel Square, St. Louis, MO 63108

Little Shop Around the Corner (314) 577-0891
4474 Castleman Drive, St. Louis, MO 63110

Shaw Nature Reserve (636) 451-3512
Hwy. 100 & I–44, Gray Summit, MO 63039

**Hours**
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Open until 8 p.m. on Wednesdays until Labor Day. Parking is free.

**General Admission***
Adults age 13–64....$7 (seniors 65+.....$5)
Members and children 12 and under.....free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings from 9 a.m. to noon (unless special event pricing applies).

** Special events may require an additional fee.*

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